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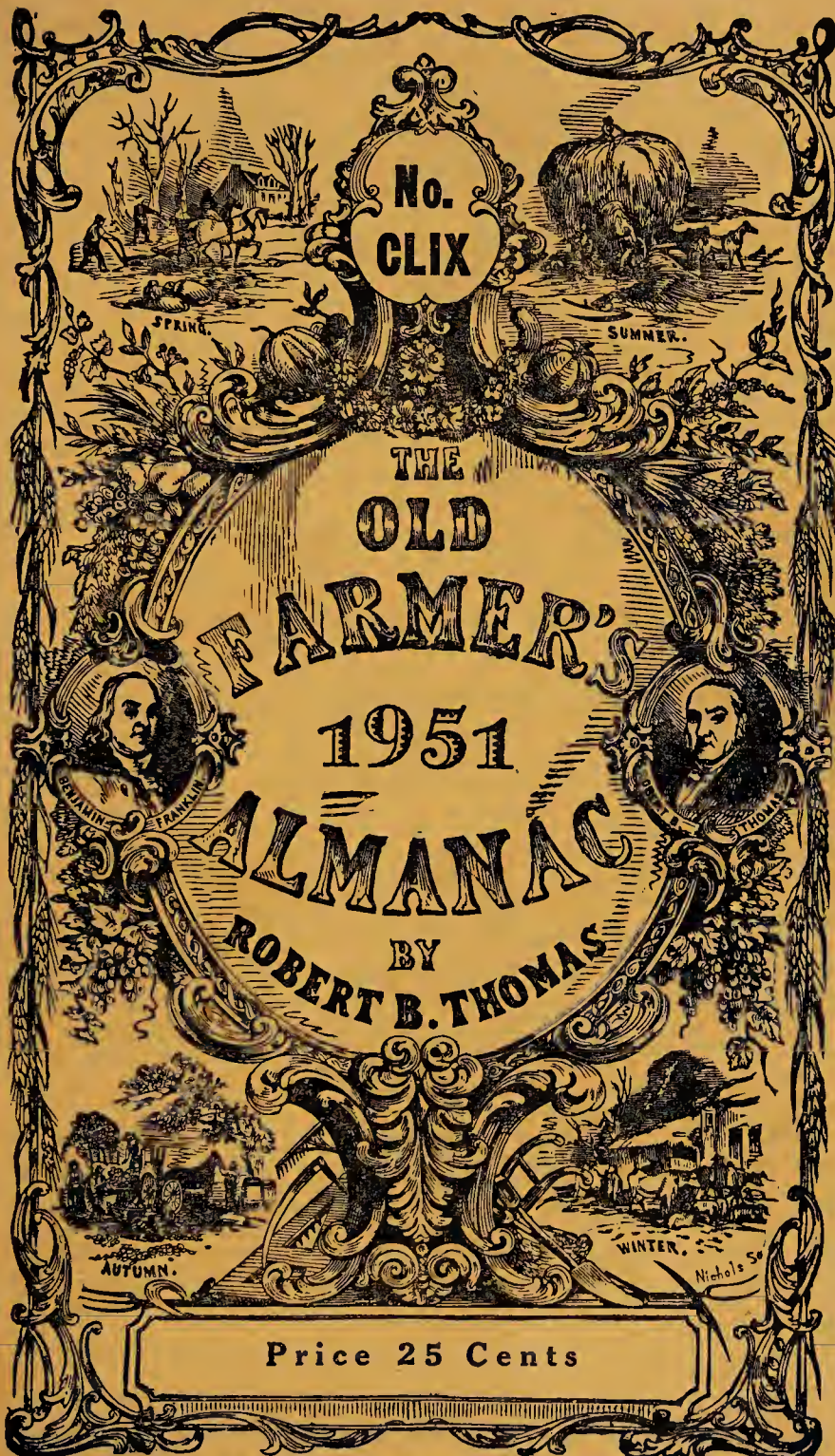

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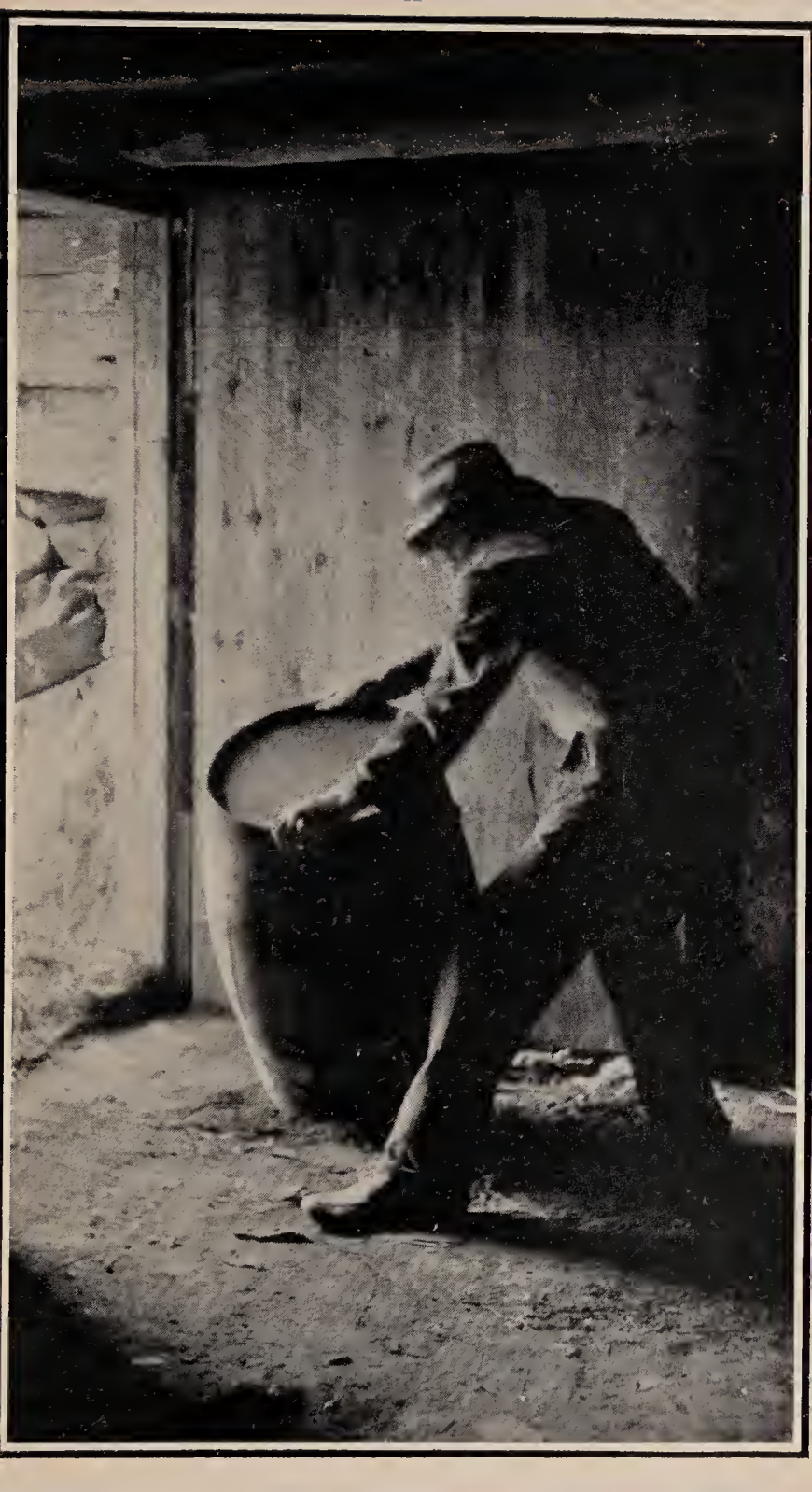

Number One Hundred and Fifty-Nine

THE

(OLD)

FARMER'S ALMANACK,

CALCULATED ON A NEW AND IMPROVED PLAN
FOR THE YEAR OF OUR LORD

1951

Being 3rd after BISSEXTILE or LEAP YEAR, and (until July 4)
175th year of American Independence

FITTED FOR BOSTON, AND THE NEW ENGLAND STATES, WITH SPECIAL CORRECTIONS AND CALCULATIONS TO ANSWER FOR ALL THE UNITED STATES.

Containing, besides the large number of Astronomical Calculations and the Farmer's Calendar for every month in the year, a variety of

NEW, USEFUL, AND ENTERTAINING MATTER.

ESTABLISHED IN 1792

BY ROBERT B. THOMAS.

Alas! how swift the moments fly! how flash the years along!
Scarce here, yet gone already by!—the burden of a song!
See Childhood, Youth, and Manhood pass,—and Age with furrowed brow!
Time was! Time shall be! But alas!—where, where, in time is now?

John Q. Adams—from the 1851 Old Farmer's Almanac.

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TO PATRONS & CORRESPONDENTS

Herewith is the 159th consecutive annual edition of The Old Farmer's Almanac. It is for the year 1951, covers Atomic Year 6, and portrays, despite man's confusions and troubles, how the universe continues in certain, predictable fashion to maintain its harmonious rhythms. This observation in itself should be sufficient hope to the courageous that the good life is more than mere promise. There are signs also on earth that we may be emerging from years of scientific and psychoanalytical despair during which the world has been seen as torn and decadent. The age of the material realist, the agnostic, the scoffer has ended and in its place has come that of the mystic and the seer. Dr. Albert Einstein, who needs no introduction as the world's greatest present day scientist, has ably dissolved our misconceptions of a material universe and turned us to new fields in outer space where rebirth is possible.

The steadfastness with which we bind with fetters of love, faith, charity these tiny invisible infinitesimal parts of our Rebirth and Being is in large part but our insistence upon freedom to hear and to follow the dictates of conscience. Doubt not even for one moment the glory of God, of America, of your fellow being, of thyself. Assert this glory in the face of all those who would destroy it. It is only in our weakened faith, in our doubts, that the shadows exist in which Communism dares hide. Profess the American way in thought and in deed . . . there is no time left for intellectual, or other, dallying with the Marxian (so called liberal) concepts which were dead long before the present enlightened age of the mystical—of the acknowledged mystery of Creation—began.

In this issue, David Morton of Deerfield, Massachusetts, has written the poetry on the Calendar Pages; Benjamin Rice of Peterborough, New Hampshire, the Farm Calendars and much else; Loring Andrews of Scituate, Massachusetts the astronomical matter; Abraham Weatherwise, the weather. The Hunting & Fishing Laws were taken from the files of **Outdoors Magazine.** Many governmental and private sources have been of inestimable help. An index appears on page 110. This and the cross references throughout we recommend as being more carefully made than were those of last year.

W. C. Newark, N. J. You ask how many gallons and pounds of water fell in a one inch rain on your acre plot. The answer is 27,154.2 gallons or 226,875 lbs. Next time please include check for the time it takes us to go out and measure such things. L. G. M., Muncie, Indiana: You state no one there seems to know where to get molds or sap buckets for use in making maple sugar. No one here seems to know where to find the price to pay for just the plain syrup. J. H. B., Boston, Mass.: The going price of a complete edition of this Almanac has never been lower than one hundred dollars. Mrs. H. G., St. Louis, Mo.: We can not advise you about the proper time for cutting hair. In our case, certain snide remarks of family or friends are helpful. A. A. B., Chicago, Ill.: As far as we know, the wind on ember days has little to do with the weather three months thence. S. T. P., Portland, Maine.: Only 20 states set their clocks ahead these days for D.S.T. B. G. G., Bozeman, Montana: We agree a rat campaign should be instituted coast to coast. Be sure to include the pink variety.

In conclusion, we wish to express our appreciation of the continued interest in the Almanac on the part of our readers, advertisers, and our many loyal friends of the press, radio, and television. It is hoped we may merit the continuance of this splendid support. Man, however, in these great things can only propose. God is the true disposer. In this then it is by our works and not our words we would be judged. These we hope will sustain us in the humble, though proud, station we have so long held, in the name of

Your ob'd servant,

Aug. 15, 1950

Robt. B. Thomas.

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The New, White ALL-PURPOSE Detergent

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VENUS, MARS, JUPITER AND SATURN 1951.

Below are given the times of the rising or setting of tbe Planets named, on the first, eleventb and twenty-first of eacb montb. Tbe time of tbe rising or setting of any one of said Planets between tbe days named may be found witb sufficient accuracy by interpolation. For explanation of keys (used in adjusting times given to your town) see pages 103 througb 108.

1951	VENUS h m	Key	MARS h m	Key	JUPITER h m	Key	SATURN h m	Key
JANUARY 1st	sets 5 14P.M.	C	scts 7 03P.M.	E	sets 8 53P.M.	G	rises 11 05P.M.	I
" 11th	" 5 38P.M.	D	" 7 05P.M.	E	" 8 24P.M.	G	" 10 26P.M.	I
" 21st	" 6 03P.M.	E	" 7 07P.M.	F	" 7 56P.M.	G	" 9 46P.M.	I
FEBRUARY 1st	sets 6 32P.M.	F	sets 7 09P.M.	G	sets 7 25P.M.	G	rises 9 01P.M.	I
" 11th	" 6 58P.M.	G	" 7 10P.M.	H	" 6 57P.M.	G	" 8 19P.M.	I
" 21st	" 7 22P.M.	H	" 7 11P.M.	H	" 6 30P.M.	G	" 7 37P.M.	I
MARCH 1st	sets 7 42P.M.	I	sets 7 11P.M.	I	sets 6 08P.M.	H	rises 7 03P.M.	I
" 11th	" 8 06P.M.	J	" 7 11P.M.	J	sets 5 41P.M.	H	rises 6 19P.M.	H
" 21st	" 8 31P.M.	L	" 7 11P.M.	J	rises 5 37A.M.	J	sets 6 05A.M.	J
APRIL 1st	sets 8 58P.M.	M	sets 7 11P.M.	K	rises 4 50A.M.	J	sets 5 20A.M.	J
" 11th	" 9 23P.M.	N	" 7 10P.M.	L	" 4 26A.M.	I	" 4 39A.M.	J
" 21st	" 9 47P.M.	O	" 7 09P.M.	L	" 3 52A.M.	I	" 3 58A.M.	J
MAY 1st	sets 10 07P.M.	P	sets 7 07P.M.	M	rises 3 17A.M.	I	sets 3 18A.M.	J
" 11th	" 10 22P.M.	P	" 7 06P.M.	M	" 2 43A.M.	I	" 2 37A.M.	J
" 21st	" 10 30P.M.	P	sets 7 04P.M.	N	" 2 08A.M.	I	" 1 57A.M.	J
JUNE 1st	sets 10 31P.M.	O	rises 4 01A.M.	D	rises 1 29A.M.	I	sets 1 14A.M.	J
" 11th	" 10 25P.M.	N	" 3 46A.M.	C	" 12 54A.M.	H	" 12 35A.M.	J
" 21st	" 10 12P.M.	M	" 3 33A.M.	C	" 12 18A.M.	H	" 11 56P.M.	J
JULY 1st	sets 9 54P.M.	L	rises 3 22A.M.	C	rises 11 37P.M.	H	sets 11 14P.M.	J
" 11th	" 9 30P.M.	K	" 3 12A.M.	C	" 11 00P.M.	H	" 10 36P.M.	J
" 21st	" 9 00P.M.	J	" 3 03A.M.	C	" 10 23P.M.	H	" 9 58P.M.	J
AUGUST 1st	sets 8 21P.M.	I	rises 2 55A.M.	C	rises 9 40P.M.	H	sets 9 16P.M.	J
" 11th	" 7 37P.M.	I	" 2 48A.M.	D	" 9 01P.M.	H	" 8 39P.M.	I
" 21st	" 6 45P.M.	I	" 2 42A.M.	D	" 8 21P.M.	H	" 8 02P.M.	I
SEPTEMBER 1st	sets 5 43P.M.	I	rises 2 35A.M.	D	rises 7 36P.M.	H	sets 7 22P.M.	I
" 11th	rises 4 37A.M.	I	" 2 28A.M.	E	" 6 54P.M.	H	" 6 45P.M.	I
" 21st	" 3 38A.M.	H	" 2 22A.M.	E	" 6 13P.M.	H	sets 6 08P.M.	I
OCTOBER 1st	rises 2 58A.M.	H	rises 2 15A.M.	F	rises 6 30P.M.	I	rises 5 29A.M.	I
" 11th	" 2 34A.M.	H	" 2 08A.M.	G	sets 5 05A.M.	I	" 4 56A.M.	I
" 21st	" 2 24A.M.	H	" 1 59A.M.	G	" 4 19A.M.	I	" 4 23A.M.	I
NOVEMBER 1st	rises 2 24A.M.	H	rises 1 50A.M.	H	sets 3 30A.M.	I	rises 3 46A.M.	I
" 11th	" 2 31A.M.	I	" 1 41A.M.	H	" 2 47A.M.	I	" 3 12A.M.	J
" 21st	" 2 42A.M.	J	" 1 31A.M.	I	" 2 05A.M.	I	" 2 38A.M.	J
DECEMBER 1st	rises 2 56A.M.	K	rises 1 21A.M.	I	sets 1 26A.M.	I	rises 2 03A.M.	J
" 11th	" 3 13A.M.	K	" 1 10A.M.	J	" 12 58A.M.	I	" 1 28A.M.	J
" 21st	" 3 32A.M.	L	" 12 59A.M.	J	" 12 11A.M.	I	" 12 52A.M.	J
" 31st	rises 3 53A.M.	M	rises 12 47A.M.	J	sets 11 37P.M.	I	rises 12 15A.M.	J

MORNING AND EVENING STARS, 1951

(*A Planet is called Morning Star when it is above the horizon at sunrise, and Evening Star when it is above the horizon at sunset. More precisely, it is a Morning Star when it is less than 180° west of the Sun in right ascension and Evening Star when it is less than 180° east. When the planet is near conjunction or opposition, the distinction is unimportant.*)

Mercury will be favorably situated for being seen as an Evening Star wben near its greatest eastern elongations about April 5, August 3, and November 28. On these dates it will set 1 h. 43 m., 1 b. 01 m., and 1 h. 10 m. respectively, after sunset. It will be seen as a Morning Star when near its greatest western elongations about January 23, May 22, and September 16, on which dates it will rise 1 h. 35 m., 0 h. 53 m., and 1 h. 31 m. respectively, before sunrise.

Venus will grace tbe hours after sunset as an Evening Star from the year's beginning until September 3 when it comes to conjunction with the Sun. From September 3 to the year's end it will be seen in tbe morning sky as a Morning Star before sunrise. It attains its greatest brilliancy as an Evening Star on July 29 and as a Morning Star on October 10.

Mars is an Evening Star as the year begins and remains such until May 22 when it comes to conjunction with the Sun. Thereafter for tbe remainder of tbe year it will be a Morning Star seen in the east before sunrise.

Jupiter will be an Evening Star visible in tbe western sky after sunset until March 11 wben it comes to conjunction witb the Sun. Thereafter, until it reaches opposition on October 2, it is a Morning Star. From October 2 until the year's end it is an Evening Star again.

Saturn is a Morning Star from the beginning of the year until March 20. It is an Evening Star from March 20 until September 29. Thence until the end of the year it is once again a Morning Star.

ECLIPSES FOR THE YEAR 1951

In the year 1951 there will be hut two eclipses, both of the Sun and both visible in the eastern half of the United States.

I. **An Annular Eclipse of the Sun,** March 7, 1951. The path from points of which the annular phase will he visible follows an all-water route from just east of Australia to its ending in the southern Caribhean except where it crosses New Zealand and Central America. The eclipse will he visible as a partial eclipse from points in the United States except in the western and northwestern parts, Mexico, Central America, the northwestern part of South America and the South Pacific Ocean.

Details of the eclipse of interest to observers in the United States are given below. By magnitude of the eclipse is meant the portion of the sun's diameter covered by the Moon.

	Eclipse begins	Middle of eclipse	Magnitude	Eclipse ends
		Eastern Standard Time		
Ann Arbor, Mich.	5.15 P.M.	5.43 P.M.	0.09	6.09 P.M.
Atlanta, Ga.	4.54 P.M.	5.45 P.M.	0.34	6.32 P.M.
Cambridge, Mass.	5.12 P.M.	Post-sunset	(0.13)*	Post-sunset
Charleston, W. Va.	5.04 P.M.	5.44 P.M.	0.22	"
Cleveland, Ohio	5.13 P.M.	5.43 P.M.	0.12	6.13 P.M.
Columbia, S.C.	4.55 P.M.	5.45 P.M.	0.35	Post-sunset
New York, N.Y.	5.08 P.M.	5.43 P.M.	0.17	"
Orono, Maine	5.20 P.M.	Post-sunset	(0.04)	"
Philadelphia, Pa.	5.06 P.M.	5.44 P.M.	0.10	"
Raleigh, N.C.	4.58 P.M.	5.45 P.M.	0.31	"
Richmond, Va.	5.01 P.M.	5.44 P.M.	0.26	"
Tallahassee, Fla.	4.48 P.M.	5.44 P.M.	0.44	"
Washington, D.C.	5.04 P.M.	5.44 P.M.	0.22	"
		Central Standard Time		
Austin, Texas	3.45 P.M.	4.40 P.M.	0.34	5.31 P.M.
Evanston, Ill.	4.18 P.M.	4.43 P.M.	0.07	5.06 P.M.
Greencastle, Ind.	4.09 P.M.	4.43 P.M.	0.15	5.17 P.M.
Iowa City, Iowa	4.20 P.M.	4.42 P.M.	0.05	5.04 P.M.
Jackson, Miss.	3.51 P.M.	4.43 P.M.	0.34	5.32 P.M.
Kansas City, Mo.	4.10 P.M.	4.42 P.M.	0.10	5.12 P.M.
Little Rock, Ark.	3.56 P.M.	4.43 P.M.	0.26	5.27 P.M.
Louisville, Ky.	4.04 P.M.	4.44 P.M.	0.20	5.22 P.M.
Madison, Wis.	4.26 P.M.	4.42 P.M.	0.03	4.58 P.M.
Nashville, Tenn.	3.59 P.M.	4.44 P.M.	0.25	5.26 P.M.
New Orleans, La.	3.46 P.M.	4.43 P.M.	0.41	5.36 P.M.
Oklahoma City, Ok.	3.59 P.M.	4.41 P.M.	0.18	5.21 P.M.
Topeka, Kans.	4.11 P.M.	4.41 P.M.	0.10	5.11 P.M.
Tuscaloosa, Ala.	3.53 P.M.	4.44 P.M.	0.34	5.32 P.M.
		Mountain Standard Time		
Phoenix, Ariz.	2.59 P.M.	3.31 P.M.	0.09	4.02 P.M.
Sante Fe, N.Mex.	3.05 P.M.	3.37 P.M.	0.10	4.07 P.M.

II. **An Annular Eclipse of the Sun,** Septemher 1, 1951, visible in its annular phase along a path extending from North Carolina across the Atlantic to West and Central Africa to an end-point in Madagascar. As a partial eclipse it will he visible as a dawn and immediately post-dawn event for United States observers living generally east of Longitude 95° W. and at later hours in the day to observers in the Middle and South Atlantic Ocean, Western Europe and Africa.

The central line of the path of annular phase starts near Winston-Salem, N.C. and thence runs eastward to the Atlantic coast at Norfolk, Va. Its width is approximately 80 miles. Observers within that path must needs rise early to see the short-lived annular phase, for the eclipse will already be in that phase as the sun rises or within minutes thereafter.

For observers elsewhere facts ahout the time and magnitude of the partial eclipse are given below. By magnitude of the eclipse is meant the portion of the sun's diameter covered hy the moon. *Continued on page 39*

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JOHN COOPER CO., 290 2nd St., Hackensack, N. J.

1951

JANUARY.						
S	M	T	W	T	F	S
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FEBRUARY.						
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AUGUST.						
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WEEKEND HOLIDAYS and the WEATHER

None of the weekend holidays except one of 1951 fall on Saturday or Sunday. Four fall on Monday, and one on Friday—thus offering the vacationer at least five full three-day excursions. The full list, the day the holiday is on, and the weather to be expected, for the full time, is given below:

January 1. Monday. Cold.
Feb. 12. Monday. Plenty of snow.
Feb. 22. Thursday. Overcast.
April 19. Thursday. Overcast.
April 23. Monday. Lowery
May 30. Wednesday. Rain.
June 17. Sunday. Nice.
July 4. Wednesday. Rain.
Sept. 3. Monday. Rain.
October 12. Friday. Rain.
November 6. Tuesday. Clear.
November 22. Thursday. Changeable.
December 25. Tuesday. White.
(See opposite page for complete list.)

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RUTH JOY CUMMINGS, Owner

Open from July 1st through September

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1952

JANUARY.						
S	M	T	W	T	F	S
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FEBRUARY.						
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MARCH.						
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30	31	-	-	-	-	-

APRIL.						
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27	28	29	30	-	-	-
-	-	-	-	-	-	-

MAY.						
S	M	T	W	T	F	S
-	-	-	-	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
-	-	-	-	-	-	-

JUNE.						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	-	-	-	-	-
-	-	-	-	-	-	-

JULY.						
S	M	T	W	T	F	S
-	-	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	-	-
-	-	-	-	-	-	-

AUGUST.						
S	M	T	W	T	F	S
-	-	-	-	-	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	-	-	-	-	-	-

SEPTEMBER.						
S	M	T	W	T	F	S
-	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	-	-	-	-
-	-	-	-	-	-	-

OCTOBER.						
S	M	T	W	T	F	S
-	-	-	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	-
-	-	-	-	-	-	-

NOVEMBER.						
S	M	T	W	T	F	S
-	-	-	-	-	-	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	-	-	-	-	-	-

DECEMBER.						
S	M	T	W	T	F	S
-	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	-	-	-
-	-	-	-	-	-	-

PRINCIPAL HOLIDAYS, ETC. IN 1951

America has no nationwide holidays. Each state determines its own. In the table that follows (*) indicates these quite generally observed by all states; (**) indicates those for only certain states; and (***) indicates days usually observed in some localities though probably not observed as holidays. Only continental United States is covered here. These dates are also all indicated on right hand calendar pages in abbreviated form.

Jan. 1 (*) New Year's Day
Jan. 8 (**) Battle of New Orleans
Jan. 19 (**) Robert E. Lee's Birthday
Jan. 26 (**) MacArthur Day (Ark.)
Jan. 30 (**) F. D. R.'s Day
Feb. 4 (**) Arbor Day (Ariz.)
Feb. 6 (**) Mardi Gras
Feb. 12 (**) Abraham Lincoln's Birthday
Feb. 14 (**) Admission Day (Arizona)
Feb. 14 (***) Valentine's Day
Feb. 15 (***) Susan B. Anthony Day
Feb. 22 (*) George Washington's Birthday
Mar. 1 (**) State Day (Nebraska)
Mar. 2 (**) Texas Independence Day
Mar. 7 (**) Burbank Day (Cal.)
Mar. 15 (**) Jackson Day (Tennessee)
Mar. 17 (**) St. Patrick's or Evacuation Day
Mar. 23 (**) Good Friday (Conn., Del., Fla., La., Md., Minn., N. J., Penn. & Tenn.)
Mar. 25 (**) Maryland Day
Mar. 26 (**) Easter Monday (N. C.)
Apr. 1 (**) State Election (Michigan)
Apr. 10 (***) Arbor Day (Neb.) 1872
Apr. 12 (**) Halifax Day (N. Car.)
Apr. 13 (**) Jefferson Day (Mo., Okla., Va.)
Apr. 14 (***) Pan American Day
Apr. 19 (**) Patriots' Day (Me., Mass.)
Apr. 21 (**) San Jacinto Day (Texas)
Apr. 22 (**) Arbor Day (Nebr.)
Apr. 22 (**) Okla. Day
Apr. 24 (**) Arbor & Bird Day (Mass.)
Apr. 24 (**) Fast Day (N. H.)
Apr. 26 (**) Memorial Day (Fla., Ga., Miss.)
May 4 (**) R. I. Independence Day
May 10 (**) Memorial Day (N. C. & S. C.)
May 13 (***) Mother's Day
May 19 (**) Armed Forces Day
May 20 (**) Mecklenburg Day (N. C.)
May 20 (**) Citizenship Day
May 30 (*) Decoration or Memorial Day
June 3 (**) Jefferson Davis Day (Ala., Ark., Fla., Ga., La., Miss., S. C., Tenn., Tex. & Va.)
June 14 (**) Flag Day (Mo. & Pa.)
June 15 (**) Pioneer Day (Idaho)
June 17 (**) Bunker Hill Day (Suffolk County, Mass.)
June 17 (***) Father's Day
June 20 (**) West Virginia Day
July 4 (*) Independence Day
July 13 (**) Forrest's Day (Tenn.)
July 24 (**) Pioneer Day (Utah)
Aug. 1 (**) Colorado Day
Aug. 14 (**) Victory Day (R. I.)
Aug. 16 (**) Bennington, Vt. Battle Day
Aug. 30 (**) Huey Long Day (La.)
Sept. 3 (*) Labor Day
Sept. 9 (**) Admission Day (Cal.)
Sept. 10 (**) Election Day (Me.)
Sept. 12 (**) Defender's Day (Md.)
Sept. 16 (**) Cherokee Day (Okla.)
Sept. 17 (***) Constitution Day
Sept. 28 (***) Am. Indian Day
Oct. 1 (**) Missouri Day
Oct. 10 (**) Okla. Hist. Day
Oct. 12 (*) Columbus Day
Oct. 31 (**) Nevada Day
Nov. 1 (**) All Saints' Day (La.)
Nov. 4 (**) Will Rogers Day (Okla.)
Nov. 6 (*) Election Day
Nov. 11 (**) Armistice Day
Nov. 22 (*) Thanksgiving Day
Nov. 23 (**) Repudiation Day (Md.)
Dec. 7 (**) Delaware Day
Dec. 21 (***) Forefather's Day
Dec. 25 (*) Christmas Day

LAST WINTER'S (Nov., Dec., 1949-Jan., Feb., Mar., 1950) WEATHER

The past seven winters were forecast by Abe Weatherwise — The Old Farmer's Almanac long time forecaster — as "Mild," "Turbulent," "Wet," "Old Fashioned," "White, long and cold," "Not so cold but icy," and finally, as "wet." The correctness of the first six of these winters has never been disputed. For the seventh, or last winter, Abe slipped up on his "bitter cold and more storms of rain and snow" for November and December of 1949. He was right however in saying that January 1950 would be "Mild" — February "Stormy," and the Spring "Cold and Late." He was furthermore correct in his year ahead forecast that on Feb. 2, 1950, the Groundhog would not see his shadow during the day but would see it by the llght of the full moon during the evening. Special Observer Francis W. Hatch reported on this day's weather events as follows: (Mr. Hatch works in Boston, lives in Weston.)

"Bedraggled snow from dawn 'tll ten,
and then
rain, cold rain
that pelted at my felted hat —
then fog that made the Boston State House dome
wistful in the mist.
drlving home
I brooded over slushy ruts and rills
and thought of washed out skiers
in the hills;
but, lo,
after one sustaining drink or so
I stepped out doors
and shining pale above,
shy and luminescent as first love,
in compliment to spirits growing bolder
there perched the moon,
a jewel on my shoulder.
(The moon I must confess in honesty
was shrouded in dim obscurity.
Behind the dismal veil it held its track,
faithful to the trusty Almanac.)

(ED. NOTE: The dismal veil referred to by Observer Hatch refers no doubt to Boston smoke as other observers of that evening report the moon full and clear.)

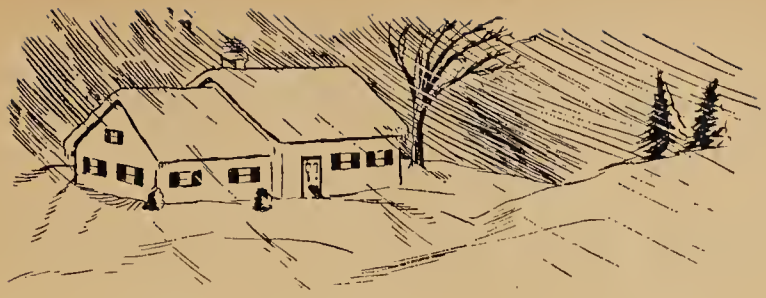
The most significant weather event of the Spring of 1950 was the report on March 28th (New York Herald Tribune) from the International Ice Patrol that icebergs were much further south than usual for that date. The Weather Bureau has long felt the need of more weather stations in Arctic areas. The importance of the movements of the ocean currents under the ice cap is not to be denied.

At the end of the winter, Chief Namais of the U. S. Weather Bureau explained that a roving high pressure cell a thousand miles off the Pacific Coast controlled by chain reaction a Bermuda high pressure area to cause another weird winter in which California at times had more snow than New England. Now that the Weather Bureau's thirty day ahead forecasts are well established it is to be hoped that such cells may be recognized in advance of the weeks and months during which their influence is to be felt.

NEXT WINTER'S (Nov., Dec., 1950-Jan., Feb., Mar., 1951) WEATHER

"PLENTY OF SNOW and PLENTY COLD"

November, 1950, will be colder than most years, and along with December, 1950, will have its full share of storms of rain and snow. January, 1951, will start off real cold, and the last half of the month will bring along almost every kiud of known winter weather. February will find on the ground more snow than usual, and this snow will stay well into March. The last three weeks of March will have uothing in them which can be spoken of favorably except they brought us three weeks nearer Spring.



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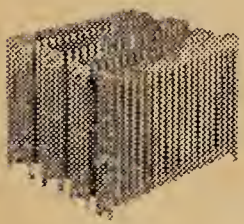

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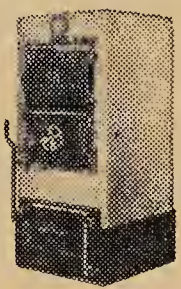

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HOW TO USE THIS ALMANAC

The following Calendar Pages (12–35) have remained practically unchanged in format since the first issue in 1793. Those not familiar with the signs, abbreviations, etc., should realize that the understanding of this time-honored format is easily come by—and contains for the year 1951: the angle of the sun's declination, the times of the change of the moon's phases, sunrise, sunset, day's length, sun dial adjustments, high tides, moon rise, moon set, moon southing, moon's place in the heavens, and the moon's age—for every day in the year. On the right hand pages are expressed, by means of the symbols explained below, the relative positions during the year of the eleven planets including our sun and moon; daily tide heights, and in italic type, coursing down just to the left of the Farm Calendar, the weather which may be expected for the days which the italic sentence covers. On these right hand pages are also indicated all the important religious Holy Days of all faiths—national and state holidays—historic dates—and advice as to when the sap starts to run, birds, return, etc.

The Moon Signs used by many for planting are given in the next to last column of the left hand pages. Abbreviations used in this column are explained below and correspond to the positions on Moon Sign Man—familiar to many—but never used in this Almanac . . . which has never given credence to astrological matter. However in the last column of the Planting Table which follows these Calendar Pages on page 36 you will find the dates which astrologers use as most favorable for planting.

For the adjustment of the times given, to those of your locality turn to page 103.

Calendar Page Explanations and Signs

On the right hand pages you will find every now and again the symbols given in Tables 1 and 2 conjoined on groups of three to give you what is happening in the heavens. See Abbreviations and Definitions on page 102.

1. Names and Characters of the Principal Planets.

☉ ☽ ☿ ♀ ♂ ♃ ♄ ♅ ♆ ♇

☉ The Sun.
☽ The Moon.
☿ Mercury.
♀ Venus.
⊕ The Earth.
♂ Mars.
♃ Jupiter.
♄ Saturn.
♅ or ♁ Uranus.
♆ Neptune.
♇ Pluto.

2. Names and Characters of the Aspects.

☌ Conjunction, or in the same degree.
□ Quadrature, 90 degrees.
☍ Opposition, or 180 degrees.
☊ Dragon's Head, or Ascending Node.
☋ Dragon's Tail, or Descending Node.

3. Names and Characters of the Signs of the Zodiac.

1. ♈ Aries, head.
2. ♉ Taurus, neck.
3. ♊ Gemini, arms.
4. ♋ Cancer, breast.
5. ♌ Leo, heart.
6. ♍ Virgo, belly.
7. ♎ Libra, reins.
8. ♏ Scorpio, secrets.
9. ♐ Sagittarius, thighs.
10. ♑ Capricornus, knees.
11. ♒ Aquarius, legs.
12. ♓ Pisces, feet.

4. Chronological Cycles for 1951.

Golden Number . . .	14	Solar Cycle	28	Roman Indiction . . .	4
Epact	22	Dominical Letter . .	G	Year of Julian Period	6664

Movable Feasts and Fasts for 1951.

SeptuagesimaSun.	Jan. 21	Good Friday	Mar. 23	Whitsunday	May 13
Shrove Sunday	Feb. 4	Easter Sunday	Mar. 25	Trinity Sunday	May 20
Ash Wednesday	Feb. 7	Low Sunday	Apr. 1	Corpus Christi	May 24
1st Sun. in Lent	Feb. 11	Rogation Sun.	Apr. 29	1st Sunday in Advent	Dec. 2
Palm Sunday	Mar. 18	Ascension Day	May 3		

THE SEASONS, 1951

Eastern Standard Time

Winter Solstice (Winter 1950),	December 22, 5.14 A.M.	—Sun enters	Capricornus,	♑
Vernal Equinox (Spring, 1951),	March 21, 5.26 A.M.	— " "	Aries,	♈
Summer Solstice (Summer),	June 22, 12.25 A.M.	— " "	Cancer,	♋
Autumnal Equinox (Autumn),	September 23, 3.38 P.M.	— " "	Libra,	♎
Winter Solstice (Winter),	December 22, 11.01 A.M.	— " "	Capricornus,	♑

STANDARD TIME IS USED THROUGHOUT THIS ALMANAC

Add one hour to obtain Daylight Saving Time.

1951] JANUARY, FIRST MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /
	1	23s.02	7	22 25	13	21 32	19	20 24	25	19 03
	2	22 57	8	22 17	14	21 22	20	20 12	26	18 48
	3	22 52	9	22 09	15	21 11	21	19 59	27	18 33
	4	22 46	10	22 01	16	21 00	22	19 45	28	18 17
	5	22 39	11	21 52	17	20 49	23	19 31	29	18 01
	6	22 32	12	21 42	18	20 37	24	19 17	30	17 45

☾ Last Quarter, 1st day, 12 h. 11 m., morning, E.
● New Moon, 7th day, 3 h. 10 m., evening, W.
☽ First Quarter, 14th day, 7 h. 23 m., evening, W.
○ Full Moon, 22nd day, 11 h. 47 m., evening, W.
☾ Last Quarter, 30th day, 10 h. 13 m., morning, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 103 THROUGH 109

Day of Year	Day of Month	Day of the Week	☉ Rises. h. m.	Key	☉ Sets. h. m.	Key	Length of Days. h. m.	Sun Fast. m.	Full Sea, Boston. Morn h.	Even h.	☽ Rises. h. m.	Key	☽ Souths. h. m.	☽'s Place	Moon's Age
1	1	M.	7 13	O	4 22	C	9 09	12	4½	5	—	—	5A48	LIB	23
2	2	Tu.	7 13	O	4 23	C	9 10	12	5½	6	1A11	L	6 37	LIB	24
3	3	W.	7 13	O	4 24	C	9 11	11	6½	7	2 19	M	7 29	SCO	25
4	4	Th.	7 13	O	4 25	C	9 12	11	7½	8	3 49	O	8 27	SCO	26
5	5	Fr.	7 13	O	4 26	C	9 13	10	8½	9	5 10	P	9 30	SGR	27
6	6	Sa.	7 13	N	4 27	D	9 14	10	9½	10	6A26	Q	10 37	SGR	28
7	7	S.	7 13	N	4 28	D	9 15	10	10¼	11	sets	—	11A44	CAP	29
8	8	M.	7 13	N	4 29	D	9 16	9	11¼	11¾	5P26	C	12P47	AQR	1
9	9	Tu.	7 13	N	4 30	D	9 17	9	—	0	6 46	E	1 44	AQR	2
10	10	W.	7 12	N	4 31	D	9 19	8	0¾	1	8 02	F	2 35	AQR	3
11	11	Th.	7 12	N	4 32	D	9 20	8	1½	1¾	9 14	H	3 23	PSC	4
12	12	Fr.	7 12	N	4 33	D	9 21	8	2¼	2¾	10 22	I	4 07	PSC	5
13	13	Sa.	7 12	N	4 35	D	9 23	7	3¼	3½	11P27	K	4 49	ARI	6
14	14	S.	7 11	N	4 36	D	9 25	7	4	4½	—	—	5 31	ARI	7
15	15	M.	7 11	N	4 37	D	9 26	6	5	5¼	12A32	L	6 14	TAU	8
16	16	Tu.	7 10	N	4 38	D	9 28	6	5¾	6¼	1 36	M	6 58	TAU	9
17	17	W.	7 10	N	4 39	D	9 29	6	6¾	7¼	2 41	O	7 45	G'M	10
18	18	Th.	7 09	N	4 40	D	9 31	5	7½	8¼	3 45	P	8 34	G'M	11
19	19	Fr.	7 09	N	4 42	D	9 33	5	8½	9	4 46	Q	9 25	G'M	12
20	20	Sa.	7 08	N	4 43	D	9 35	5	9¼	9¾	5 41	Q	10 17	CNC	13
21	21	S.	7 07	N	4 44	D	9 37	4	10	10½	6A29	Q	11P09	CNC	14
22	22	M.	7 07	N	4 45	D	9 38	4	10½	11¼	rises	Q	—	—	—
23	23	Tu.	7 06	N	4 47	D	9 41	4	11¼	11¾	5P19	—	12A00	LEO	15
24	24	W.	7 05	N	4 48	D	9 43	4	—	0	6 24	F	12 48	LEO	16
25	25	Th.	7 05	N	4 49	E	9 45	3	0½	0½	7 32	G	1 34	LEO	17
26	26	Fr.	7 04	M	4 50	E	9 47	3	1	1¼	8 40	H	2 19	VIR	18
27	27	Sa.	7 03	M	4 52	E	9 49	3	1¾	2	9 49	J	3 03	VIR	19
28	28	S.	7 02	M	4 53	E	9 51	3	2½	2¾	11P00	K	3 47	LIB	21
29	29	M.	7 01	M	4 54	E	9 53	3	3¼	3½	—	—	4 34	LIB	22
30	30	Tu.	7 00	M	4 56	E	9 56	2	4	4½	12A14	M	5 22	SCO	23
31	31	W.	6 59	M	4 57	E	9 58	2	5	5½	1A32	N	6A17	SCO	24

JANUARY hath 31 days. [1951

Disruption, dislocation, everywhere,
Formless and wild, and part at war with part . . .
And, still, the word, the word, at her love-making,

Stubborn and small and sweet in violent air,
Persists in shape and sense, begging the heart:
'Cleave unto me, me, all others forsaking'.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	M.	Circumcision. ⊕ in Peri Underground Moon {9.4 9.0	Once when I was a small boy at school my teacher, irritated by my thick-headedness remarked that I hadn't brains enough to last me over night (a conviction, by the way, which he carried to his dying day). This, being in class before my gleeful classmates caused me the agonizing embarrassment that only the very young may know—while not in the least clearing up my thick-headedness. At any rate, I have always remembered the remark (and the sting of it), and, I think, turned it to good account.
2	Tu.	☿ in Aph. [1st ♂☿☉ Inf. ♂♆☾]	*The*
3	W.	1st U.S. Bldg. & Loan Soc. Frankford, Pa. 1831 {10.0 8.8	*year*
4	Th.	Flowers in Bloom 1950 Tides {10.4 8.9	*starts*
5	Fr.	Take down Xmas Greens Tides {10.8 9.1	*cold.*
6	Sa.	Epiph. ♂☿☾ ☾ in Peri ☾ rides low. {11.2 9.4	
7	☾	1st ☽ af. ☾. Rock Day Tides {11.4 9.6	
8	M.	Plough Monday ☿ Gr. Hel. Lat. N. ♂♀☾ {11.4 9.7	
9	Tu.	Snowed in California 1949 ♂♂☾	*Moderates*
10	W.	U.S. Radar reaches moon 1946 □♆☉ {9.8 11.0	*some.*
11	Th.	Borden Inv. Cond. Milk 1874 ♂♃☾ {9.8 10.5	*then*
12	Fr.	Maximilian d. 1519 ☿ Stat. in R.A. Tides {9.6 9.9	
13	Sa.	Legend of Vera Iconica ♄ Stat. in RA. {9.5 9.8	*snows.*
14	☾	2d ☽. a. Ep. St. Hilary coldest in year {9.2 8.7	
15	M.	[14th 78° below Alaska 1934] Tides {9.0 8.1	*Much*
16	Tu.	Famous Bottle Hoax 1749 Tides {8.9 7.7	*colder*
17	W.	Brink Holdup 1950 Tides {8.9 7.5	*now*
18	Th.	Chimney Fire Danger Now ☾ in Apo. Tides {8.9 7.5	*with*
19	Fr.	Cold Waves 1810, 1875, 1948 Hol. South Tides {9.0 7.6	*ice*
20	Sa.	♂♁☾ ☾runs high. Tides {9.3 7.8	*sleet*
21	☾	Septuag. ☽. ♆ Stat in R.A. {9.5 8.1	*hail*
22	M.	Russian Bloody Sunday 1905 Wolf Moon Tides {8.7 7.8	*and*
23	Tu.	Mercury now Morning Star ☿ Gr. El. W {9.8 8.5	*snow.*
24	W.	Cannibalism ends at Kabambary 1894 Tides {— 9.9	*The*
25	Th.	Conversion of Paul ☿ Gr. Hel. Lat. S. It clear, happy year {8.8 10.0	
26	Fr.	Jet crosses U.S. 4 h. 13 m. 1946 {9.1 9.9	*January thaw.*
27	Sa.	First Boston Fire Engine 1679 ♂♄☾ {9.3 9.7	*Do*
28	☾	Sexag. ☽. Tides {9.6 9.5	*not*
29	M.	Thos. Paine born 1737 ♂♆☾ {9.7 9.2	*forget*
30	Tu.	Hol. Ky.-W.Va. Tides {9.8 8.9	*your*
31	W.	Louisiana Purchase 1803 ☿ in ♉ {9.9 8.6	*earmuffs.*

A school teacher myself in later years, I have tried never to make a pupil suffer from a cruel and unconstructive tongue-lashing, particularly before his fellows. "Losing face" is a crushing thing to youngsters—only a little less so to us who are older—and certainly not less so to nations and races. God knows the world can do—and must do — with every grain of kindness and thoughtfulness we may find for the other fellow to-day.

A lighter thought from the farm: We who are not so concerned with the marts of trade, fiscal years and so on, as our more prosperous brethren in the business world, suggest a new date for New Year; Namely, when the seasonal year is really new—a new green world (wonderful for the morale), sometime in the Spring, let's say, when the Agricultural Department is getting things lined up for realigning, and the mint is green.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.

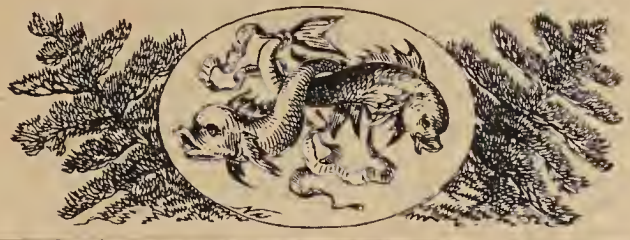
Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /
1	17s. 12	7	15 25	13	13 28	19	11 24	25	9 13		
2	16 55	8	15 06	14	13 08	20	11 02	26	8 50		
3	16 37	9	14 47	15	12 47	21	10 41	27	8 28		
4	16 19	10	14 27	16	12 26	22	10 19	28	8 05		
5	16 01	11	14 08	17	12 06	23	9 57				
6	15 43	12	13 48	18	11 45	24	9 35				

● New Moon, 6th day, 2 h. 54 m., morning, E.
☽ First Quarter, 13th day, 3 h. 55 m., evening, E.
○ Full Moon, 21st day, 4 h. 12 m., evening, E.
☾ Last Quarter, 28th day, 5 h. 59 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 103 THROUGH 109

Day of Year	Day of Month	Day of the Week	☉ Rises. h. m.	Key	☉ Sets. h. m.	Key	Length of Days. h. m.	Sun Fast. m.	Full Sea, Boston. Morn h.	Full Sea, Boston. Even h.	☽ Rises. h. m.	Key	☽ Souths. h. m.	☽'s Place	Moon's Age
32	1	Th.	6 58	M	4 58	E	10 00	2	6	6¾	2ᴬ50	P	7ᴬ16	SGR	25
33	2	Fr.	6 57	M	4 59	E	10 02	2	7	7¾	4 06	P	8 19	SGR	26
34	3	Sa.	6 56	M	5 01	E	10 05	2	8¼	8¾	5 12	Q	9 24	CAP	27
35	4	S.	6 55	M	5 02	E	10 07	2	9¼	9¾	6 05	P	10 27	CAP	28
36	5	M.	6 54	M	5 03	E	10 09	2	10	10¾	6ᴬ48	N	11ᴬ27	AQR	29
37	6	Tu.	6 53	M	5 05	E	10 12	2	11	11½	sets	—	12ᴾ22	AQR	30
38	7	W.	6 52	M	5 06	E	10 14	2	11¾	—	6ᴾ50	G	1 11	PSC	1
39	8	Th.	6 50	M	5 07	E	10 17	2	0¼	0¾	8 01	I	1 57	PSC	2
40	9	Fr.	6 49	L	5 09	F	10 20	1	1	1½	9 10	J	2 41	ARI	3
41	10	Sa.	6 48	L	5 10	F	10 22	1	1¾	2¼	10 16	K	3 24	ARI	5
42	11	S.	6 47	L	5 11	F	10 24	1	2½	3	11ᴾ22	M	4 07	TAU	6
43	12	M.	6 45	L	5 12	F	10 27	1	3½	3¾	—	—	4 52	TAU	7
44	13	Tu.	6 44	L	5 14	F	10 30	1	4¼	4¾	12ᴬ28	N	5 38	TAU	8
45	14	W.	6 43	L	5 15	F	10 32	1	5	5¾	1 33	O	6 27	G'M	9
46	15	Th.	6 41	L	5 16	F	10 35	2	6	6¾	2 35	P	7 17	G'M	10
47	16	Fr.	6 40	L	5 18	F	10 38	2	7	7¾	3 33	Q	8 09	CNC	11
48	17	Sa.	6 38	L	5 19	F	10 41	2	8	8½	4 24	Q	9 01	CNC	12
49	18	S.	6 37	L	5 20	F	10 43	2	8¾	9¼	5 07	P	9 52	CNC	13
50	19	M.	6 36	L	5 21	F	10 45	2	9½	10	5 42	O	10 41	LEO	14
51	20	Tu.	6 34	L	5 23	F	10 49	2	10¼	10¾	6ᴬ10	N	11ᴾ29	LEO	15
52	21	W.	6 33	K	5 24	G	10 51	2	10¾	11¼	rises	—	—	—	—
53	22	Th.	6 31	K	5 25	G	10 54	2	11½	—	6ᴾ29	H	12ᴬ15	VIR	16
54	23	Fr.	6 30	K	5 26	G	10 56	2	0	0¼	7 39	I	1 00	VIR	17
55	24	Sa.	6 28	K	5 28	G	11 00	2	0½	0¾	8 51	K	1 44	LIB	18
56	25	S.	6 27	K	5 29	G	11 02	3	1¼	1½	10 05	L	2 31	LIB	19
57	26	M.	6 25	K	5 30	G	11 05	3	2	2¼	11ᴾ22	N	3 20	SCO	20
58	27	Tu.	6 23	K	5 31	G	11 08	3	2¾	3¼	—	—	4 12	SCO	21
59	28	W.	6 22	K	5 33	G	11 11	3	3¾	4¼	12ᴬ39	O	5ᴬ10	SGR	22

FEBRUARY hath 28 days. [1951



The full moon, slow and round,
And softly, with no sound,
The unseeing, baleful eye,
Opens in the sky.

The whole east is a bare
And bold, unblinking stare.
And everything abroad
Will turn and look, being awed,

Being stilled, as by some danger,
As by the dead in anger,—
Till later, when a white
Full flower above the night
Is man-and-maid's delight.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	
1	Th.	St. Bridget. Tides {10.0 / 8.5	Raw
2	Fr.	Purif. of Mary Groundhog Day ☾ rides low	and
3	Sa.	I, William of the Wastle Am now in my castle. ☾ in Peri. {10.5 / 8.9	
4	G	Quin. S. ☌☿☾ Hol. Ariz. {10.8 / 9.2	windy.
5	M.	94° below in Siberia 1892 Tides {11.1 / 9.6	
6	Tu.	Shrove Tu. Mardi Gras Hol. La. {11.2 / 9.9	Wax
7	W.	Ash W. Occulation of Venus ☌☌♃	up
8	Th.	☌♃☾ ☌☌☾ ☌♀☉ [7th ☌♀☾]	
9	Fr.	18° below at Boston 1934 Tides {10.0 / 10.3	your skis,
10	Sa.	66° below at Yellowstone 1933 ☿ in ☉ Aph. {9.9 / 9.7	there
11	G	1st S. E. ☌♀♃ Tides {9.7 / 9.1	will
12	M.	Lincoln's Birthday Set hens bef. Feb. 20 Tides {9.4 / 8.4	be
13	Tu.	MacDonald Massacre 1692 Tides {9.1 / 7.9	snow
14	W.	St. Val. Ember Day Tides {8.8 / 7.5	to
15	Th.	Auld Deer, worst weather of year ☌♀☌☾ in Apo.	your
16	Fr.	☾ runs high Ember {8.6 / 7.3	knees.
17	Sa.	☌☉☾ Days {8.7 / 7.5	Tornadoes
18	G	2nd S. L. Tides {9.0 / 7.8	down
19	M.	Edison patented phonograph 1878 Tides {9.3 / 8.2	South,
20	Tu.	Snowed 16" 1921 Tides {9.6 / 8.7	high
21	W.	Spinoza died 1677 Tides {9.9 / 9.1	tides
22	Th.	Washington's Birthday Tides {10.0 / 9.5	up
23	Fr.	Rotary Fd 1905 ☌♄☾ Tides {— / 10.1	North.
24	Sa.	St. Matthias Tides {9.8 / 10.1	At dawn
25	G	3rd S. L. ☌♆☾ {10.1 / 9.9	you'll
26	M.	Buffalo Bill born 1845 Tides {10.2 / 9.5	find jewels
27	Tu.	British passed Stamp Act 1765 Tides {10.2 / 9.1	on the
28	W.	Racehorse Eclipse d. 1789 Tides {10.1 / 8.7	lawn.

SET, CUT, SOW
SPRING OR GROW
IN THE INCREASE OF THE MOON.

Farmer's Calendar.

This "dead" land of ours is not nearly so dead as it looks. There may have crept into the ground a few feet of frost—more or less—according to the snow cover. And only the oak and the beech leaves hang. But this isn't death. The truth is as old and as hackneyed—as old and as fresh and perennial as snows and frost. Come spring the urgent sap will rise in these ancient trees, and all over the forest floor the seeds, the flowers, the new shoots will burst to life. "Dead" January is just a period of rest and regathering for a little while.

And why not so for us? To farmers this "dead time" can (despite farm business) still be a time of relaxation and regathering. We have now the extra hours that no other season offers.

If we are lucky enough to have turned a fair profit on orchards or small fruits or market gardens, why not take that trip South? Why not, trip or no, make this the time of gathering and regathering information on things that mean most to us? Or, for that matter, things that don't? There is certainly more in this world than we have dreamed of—and when better than now to search it out?

Books, lectures, friends, home, travel can be our thresholds to a new life in "dead January."

1951] MARCH, Third Month.

ASTRONOMICAL CALCULATIONS.

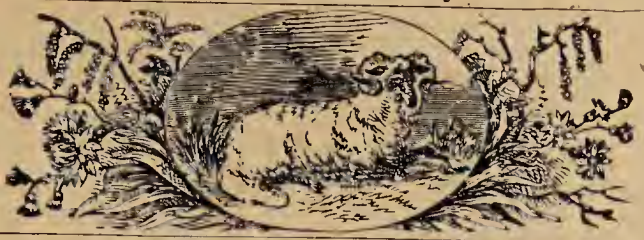
☉'s Declination.	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /
	1	7S. 43	7	5 24	13	3 03	19	0 41	25	1 41
	2	7 20	8	5 01	14	2 40	20	0S. 18	26	2 04
	3	6 57	9	4 38	15	2 16	21	0N. 06	27	2 28
	4	6 34	10	4 14	16	1 52	22	0 30	28	2 51
	5	6 11	11	3 51	17	1 29	23	0 53	29	3 15
	6	5 48	12	3 27	18	1 05	24	1 17	30	3 38

● New Moon, 7th day, 3 h. 50 m., evening, W.
☽ First Quarter, 15th day, 12 h. 40 m., evening, E.
○ Full Moon, 23rd day, 5 h. 50 m., morning, E.
☾ Last Quarter, 30th day, 12 h. 35 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 103 THROUGH 109

Day of Year	Day of Month	Day of the Week	☉ Rises. h. m.	Key	☉ Sets. h. m.	Key	Length of Days. h. m.	Sun Fast m	Full Sea, Boston. Morn h.	Full Sea, Boston. Even h.	☽ Rises. h. m.	Key	☽ Souths. h. m.	☽'s Place	Moon's Age
60	1	Th.	6 20	K	5 34	G	11 14	3	4¾	5¼	1A M 55	P	6A M 10	SGR	23
61	2	Fr.	6 19	K	5 35	G	11 16	3	5¾	6½	3 03	Q	7 13	CAP	24
62	3	Sa.	6 17	K	5 36	G	11 19	4	6¾	7½	4 00	P	8 16	CAP	25
63	4	S.	6 16	K	5 37	G	11 21	4	8	8¾	4 44	O	9 15	AQR	26
64	5	M.	6 14	J	5 39	H	11 25	4	9	9½	5 18	N	10 10	AQR	27
65	6	Tu.	6 12	J	5 40	H	11 28	4	10	10½	5A M 45	L	11 01	PSC	28
66	7	W.	6 11	J	5 41	H	11 30	5	10¾	11¼	sets	—	11A M 48	PSC	29
67	8	Th.	6 09	J	5 42	H	11 33	5	11½	—	6P M 50	I	12P M 33	PSC	1
68	9	Fr.	6 07	J	5 43	H	11 36	5	0	0¼	7 57	K	1 16	ARI	2
69	10	Sa.	6 06	J	5 45	H	11 39	5	0½	1	9 04	L	2 00	ARI	3
70	11	S.	6 04	J	5 46	H	11 42	6	1¼	1¾	10 11	N	2 44	TAU	4
71	12	M.	6 02	J	5 47	H	11 45	6	2	2½	11P M 18	O	3 30	TAU	5
72	13	Tu.	6 00	J	5 48	H	11 48	6	2¾	3¼	—	—	4 18	G'M	6
73	14	W.	5 59	J	5 49	H	11 50	6	3½	4	12A M 22	P	5 08	G'M	7
74	15	Th.	5 57	J	5 50	H	11 53	7	4¼	5	1 22	Q	5 59	G'M	8
75	16	Fr.	5 55	I	5 52	I	11 57	7	5¼	6	2 16	Q	6 51	CNC	9
76	17	Sa.	5 54	I	5 53	I	11 59	7	6¼	7	3 02	Q	7 42	CNC	10
77	18	S.	5 52	I	5 54	I	12 02	7	7¼	8	3 40	P	8 32	LEO	11
78	19	M.	5 50	I	5 55	I	12 05	8	8	8¾	4 11	N	9 20	LEO	12
79	20	Tu.	5 48	I	5 56	I	12 08	8	9	9½	4 38	M	10 06	VIR	13
80	21	W.	5 47	I	5 57	I	12 10	8	9¾	10	5 00	K	10 52	VIR	14
81	22	Th.	5 45	I	5 59	I	12 14	9	10¼	10¾	5A M 21	J	11P M 48	VIR	15
82	23	Fr.	5 43	I	6 00	I	12 17	9	11	11¼	rises	—	—	—	—
83	24	Sa.	5 41	I	6 01	I	12 20	9	11¾	—	7P M 49	L	12A M 24	LIB	16
84	25	S.	5 40	I	6 02	I	12 22	10	0	0½	9 07	M	1 14	LIB	17
85	26	M.	5 38	I	6 03	I	12 25	10	0¾	1¼	10 27	O	2 06	SCO	18
86	27	Tu.	5 36	H	6 04	J	12 28	10	1½	2	11P M 45	P	3 03	SCO	19
87	28	W.	5 34	H	6 05	J	12 31	10	2½	3	—	—	4 04	SGR	21
88	29	Th.	5 33	H	6 06	J	12 33	11	3¼	4	12A M 57	Q	5 07	SGR	22
89	30	Fr.	5 31	H	6 08	J	12 37	11	4¼	5	1 56	P	6 10	CAP	23
90	31	Sa.	5 29	H	6 09	J	12 40	11	5½	6¼	2A M 44	O	7A M 09	CAP	24

MARCH hath 31 days. [1951



Rhyme the snow
With—No!
Deny
The sky
Access to earth with this
Alien and obliterating kiss.

Intone, then . . . intone
Our known, our own
Brown earth, and flower, and stone,
Our own, her flower and stone.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Th.	Carroll Swan died 1935 St. David {9.9 8.3	The
2	Fr.	☾ in Peri. ☾ Rides Low Hol. Texas {9.8 8.2	days
3	Sa.	Nantucket icebound 1907 ☿ Gr. Hel. Lat. S.	lengthen
4	☌	4th S. L. Pyramids Hailed 1950 {10.1 8.8	and
5	M.	The Ides begin—beware of Old Colind Tides {10.4 9.4	the
6	Tu.	[5th Boston Massacre 1770] Tides {10.6 9.8	cold
7	W.	☉ Annular Eclipse ♂ ☿ ☾ ♂ ♃ ☾ {10.7 10.1	
8	Th.	Boonville, N.Y. Fiasco 1794 {10.6 10.3	strengthens.
9	Fr.	Iceberg Patrol starts out ♂ ♂ ☾ {— 10.8	False
10	Sa.	Maple Sap runs now ♂ ♀ ☾ Tides {10.2 8.9	signs
11	☌	Passion S. Blizzard of 1888 {10.1 9.4	of
12	M.	St. Gregory Jupiter now Morning Star Tides {9.8 8.8	
13	Tu.	[11th ♂ ☿ ♃ ♂ ☿ ☉ Sup. ♂ ♃ ☉] {9.5 8.3	
14	W.	First Town Meeting Faneuil Hall 1743 ☉ Stat. in R. A.	Spring.
15	Th.	Caesar ass. B.C. 44 ☾ in Apo. ☾ runs high Tides {8.8 7.4	
16	Fr.	Robins and crows are back ♂ ♋ ☾	Tornadoes
17	Sa.	St. Patrick Hol. Boston {8.5 7.4	in Midwest
18	☌	Palm S. Tides {8.6 7.7	and
19	M.	Swallows arrive San Juan Capistrano Tides {8.8 8.1	you
20	Tu.	Saturn now evening star ♂ ♄ ☉ Tides {9.2 8.7	
21	W.	Spring Begins 5:26 A.M. ☉ en- ters ♈ {9.6 9.2	keep
22	Th.	Maundy Thurs. The Last Supper PURIM ☿ in ♌ {9.9 9.7	
23	Fr.	Good Fri. ♂ ♄ ☾ [22nd ♀ in ♌]	
24	Sa.	Fire Blessing at St. Peter's ♂ ♆ ☾ {10.2 —	on your
25	☌	Easter Day Annunciation Lady Day {10.6 10.1	
26	M.	♂ ☿ ♂ □ ♋ ☉ ☿ in Peri	fur lined
27	Tu.	Japs ditch League 1935 ☾ in Peri Tides {10.7 9.5	vest.
28	W.	Chicago Tornado, 1920 Tides {10.5 9.0	
29	Th.	Raphael Born 1483 ☾ rides low Tides {10.2 8.6	Rains
30	Fr.	Sicilian Massacres 1282 Tides {9 9 8 3	ice
31	Sa.	"Three Silly Hoggs came hirpling hame" {9.6 8.3	cubes.

What do we mean by *parity* prices as they concern farm products? A parity price is the price of a commodity which will give that commodity the same purchasing power it had at a particular "base" level. It was in 1933 when the first Agricultural Adjustment Act was passed that we began to talk *parity*. Parity price then for farmers, or some part of us farmers, was based on prices of basic commodities as of August 1909 to July 1914. (This base has been changed since.)

The definition of the parity of commodities has essentially the same definition now as then, and it is as easily understood.

We quote from Dr. J. R. Bowring in the Journal of the New Hampshire Horticultural Society: "The Parity price of a commodity is arrived at arithmetically by multiplying the base price by a parity index. This parity index is an index of prices paid in relation to the base period and includes 86 items used in family living and 93 items used in farm production. These items include clothing, household supplies, food, building materials, bricks, tractors, feed, farm machinery, and so on. Allowances for taxes and mortgage interest are also included. Therefore, for example, if the parity index is 250, the parity price will be the price at the base period times 2.5."

We are glad to know this—for we have always wondered just how one arrived at *parity*.

ASTRONOMICAL CALCULATIONS.

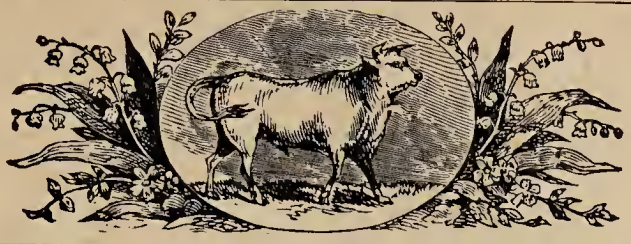
☉'s Declination.	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /
	1	4N. 25	7	6 42	13	8 55	19	11 03	25	13 05
	2	4 48	8	7 05	14	9 17	20	11 24	26	13 24
	3	5 11	9	7 27	15	9 39	21	11 45	27	13 44
	4	5 34	10	7 49	16	10 00	22	12 05	28	14 03
	5	5 57	11	8 11	17	10 21	23	12 25	29	14 21
	6	6 19	12	8 33	18	10 42	24	12 45	30	14 40

● New Moon, 6th day, 5 h. 52 m., morning, E.
☽ First Quarter, 14th day, 7 h. 55 m., morning, E.
○ Full Moon, 21st day, 4 h. 30 m., evening, E.
☾ Last Quarter, 28th day, 7 h. 17 m., morning, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 103 THROUGH 109

Day of Year	Day of Month	Day of the Week	☉ Rises. h. m.	Key	☉ Sets. h. m.	Key	Length of Days. h. m.	Sun Fast.	Full Sea, Boston. Morn h.	Even h.	☽ Rises. h. m.	Key	☽ Souths. h. m.	☽'s Place	Moon's Age
91	1	S.	5 28	H	6 10	J	12 42	12	6¾	7½	3A M20	N	8A M05	AQR	25
92	2	M.	5 26	H	6 11	J	12 45	12	7¾	8½	3 49	M	8 56	AQR	26
93	3	Tu.	5 24	H	6 12	J	12 48	12	8¾	9¼	4 12	K	9 43	PSC	27
94	4	W.	5 22	H	6 13	J	12 51	13	9¾	10	4 33	J	10 27	PSC	28
95	5	Th.	5 21	H	6 14	J	12 53	13	10½	10¾	4A M53	I	11 11	ARI	29
96	6	Fr.	5 19	H	6 15	J	12 56	13	11¼	11½	sets	G	11A M54	ARI	0
97	7	Sa.	5 17	H	6 17	J	13 00	13	11¾	—	7P M55	—	12P M37	TAU	1
98	8	S.	5 16	G	6 18	K	13 02	14	0	0½	9 02	M	1 23	TAU	2
99	9	M.	5 14	G	6 19	K	13 05	14	0¾	1¼	10 07	N	2 10	TAU	3
100	10	Tu.	5 12	G	6 20	K	13 08	14	1½	2	11P M10	P	3 00	G'M	4
101	11	W.	5 11	G	6 21	K	13 10	15	2	2¾	—	Q	3 51	G'M	5
102	12	Th.	5 09	G	6 22	K	13 13	15	2¾	3½	12A M07	—	4 42	CNC	6
103	13	Fr.	5 07	G	6 23	K	13 16	15	3¾	4¼	12 56	Q	5 33	CNC	7
104	14	Sa.	5 06	G	6 24	K	13 18	15	4½	5¼	1 36	Q	6 23	CNC	9
105	15	S.	5 04	G	6 26	K	13 22	16	5½	6¼	2 10	P	7 11	LEO	10
106	16	M.	5 02	G	6 27	K	13 25	16	6½	7¼	2 38	O	7 57	LEO	11
107	17	Tu.	5 01	G	6 28	K	13 27	16	7½	8	3 01	M	8 42	VIR	12
108	18	W.	4 59	G	6 29	K	13 30	16	8¼	8¾	3 23	L	9 27	VIR	13
109	19	Th.	4 57	G	6 30	K	13 33	17	9	9½	3 44	K	10 13	LIB	14
110	20	Fr.	4 56	G	6 31	L	13 35	17	9¾	10¼	4 05	I	11 02	LIB	15
111	21	Sa.	4 54	F	6 32	L	13 38	17	10½	11	4A M28	H	11P M54	SCO	16
112	22	S.	4 53	F	6 33	L	13 40	17	11½	11½	rises	—	—	—	
113	23	M.	4 51	F	6 35	L	13 44	17	—	0¼	9P M26	O	12A M51	SCO	17
114	24	Tu.	4 50	F	6 36	L	13 46	18	0½	1	10 43	P	1 52	SGR	18
115	25	W.	4 48	F	6 37	L	13 49	18	1¼	1¾	11P M49	Q	2 57	SGR	19
116	26	Th.	4 47	F	6 38	L	13 51	18	2¼	2¾	—	—	4 02	CAP	20
117	27	Fr.	4 45	F	6 39	L	13 54	18	3	3¾	12A M42	P	5 04	CAP	21
118	28	Sa.	4 44	F	6 40	L	13 56	18	4¼	5	1 22	O	6 01	AQR	22
119	29	S.	4 42	F	6 41	L	13 59	18	5¼	6	1 53	M	6 53	AQR	23
120	30	M.	4 41	F	6 42	L	14 01	19	6½	7	2A M17	L	7A M41	PSC	24

APRIL hath 30 days. [1951



The cut-back shoot declares,
From the rude, broken mouth,
For life! . . . And the dream fares
Intensely, underground,
Where the black root is bound,
Away from the air's south.

There, in the dark, among
Lidless, unbreathing things,
Things without eye or lung,
With nought to breathe or see,
The root shapes what will be
The exquisite flower that brings

A whiteness here to mark
How the root kept the dark.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, Etc.	Farmer's Calendar.
1	♋	Low S. April Fool's Day Tides 9.6 8.6	Temp-
2	M.	Jesus Christ Crucified Tides 9.7 9.1	erature
3	Tu.	33 A.D. Tides 9.8 9.5	drop
4	W.	Grass Fire Danger ☌♃☾ Tides 10.1 10.0	might
5	Th.	Mercury now Evening Star ☿ Gr. El. E Tides 10.1 10.2	kill
6	Fr.	Blue Heron arr. Vinal Haven, Me. ☿ Gr. Hel. Lat. N.	apple
7	Sa.	☌♂☾ ☌☿☾ Tides 9.7 —	crop.
8	♋	2nd a. E. ☍♆☉ Tides 10.3 9.4	
9	M.	Nantucket 1st snow in 3 yrs. 1950 ☌♀☾ Tides 10.2 9.0	High
10	Tu.	Pony Express inaug. 1860 (9th) Hol. Neb. Tides 9.9 8.6	winds
11	W.	Peepers are peeping ☾ in Apo. Tides 9.6 8.2	may
12	Th.	☾ runs high. ☌☉☾ Hol. N.C. Tides 9.2 7.8	expose
13	Fr.	U.S. ships enter Black Sea 1830 Hol. Mo.-Okla.-Va. Tides 8.9 7.6	ladies'
14	Sa.	Sardines-Smelt now running ☿ Stat. in R.A. Tides 8.6 7.5	shins.
15	♋	3rd af. E. Titanic sank 1912 Tides 8.5 7.7	It
16	M.	Minot's Lightbouse destroyed 1851 Tides 8.6 8.1	will
17	Tu.	Earthquake N.E.1949 Tides 8.8 8.6	be
18	W.	Paul Revere's Night Ride 1775 Tides 9.1 9.2	warm,
19	Th.	Patriots' D. ☌☿♂ ☌♄☾ Tides 9.5 9.9	and
20	Fr.	Lincoln's Funeral 1865 ☌♆☾ Female child	there
21	Sa.	Passover Red Moon most likely	will
22	♋	4th S.a.E. If conceived 17–25	be
23	M.	St. George Fast Day N.H. ☾ in Peri. Tides — 10.0	a
24	Tu.	☌☿☉ inf. Tides 11.3 9.8	storm.
25	W.	☾ Rides low ♀ in Peri Tides 11.1 9.4	Now
26	Th.	The wild pear Tides 10.8 9.0	it
27	Fr.	is now in bloom Tides 10.3 8.7	clears,
28	Sa.	Mars was conceived Tides 9.8 8.6	let's give
29	♋	Rog. S. D.S.T. begins ☿in♍ Tides 9.5 8.7	three
30	M.	"My soul is God's My life my country's"	cheers.

Fish Bite Best During Last Qtr. & New Moon

The commercial grower is becoming more and more convinced that conservation farm ponds will save money and labor and offer protection not only against drought but against fire. Then, too, there is the factor of furnishing water for livestock, fish production, recreation, and true conservation, for many farm ponds put to productive use runoff water that otherwise would be wasted and cause soil erosion.

The idea of irrigation and sprinkling in time of drought is no longer confined to those western growers where irrigation has always been essential, but to other growers everywhere who use their ponds as a direct source for irrigation or for sprinkling —or just as a handy source for their sprayers.

For the most part these ponds (over 175,000 of them since 1937) have originated with the technicians of the United States Soil Conservation Service. Sound advice on where and how to build a pond is essential—and advice on how to maintain the pond once you have it. The Soil Conservation officers in your district will make no charge for this service.

Among the first ABC's for your pond will be to determine whether you have the type of soil that will hold water once impounded.

Don't forget, come May, that with your farm pond you have a first class fishing hole which may not be fished out before you get to it.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.

Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /
1	14N. 58	7	16 43	13	18 18	19	19 42	25	20 53		
2	15 16	8	17 00	14	18 33	20	19 55	26	21 04		
3	15 34	9	17 16	15	18 47	21	20 07	27	21 14		
4	15 52	10	17 32	16	19 01	22	20 19	28	21 24		
5	16 09	11	17 48	17	19 15	23	20 31	29	21 34		
6	16 26	12	18 03	18	19 29	24	20 42	30	21 43		

● New Moon, 5th day, 8 h. 35 m., evening, E.

☽ First Quarter, 14th day, 12 h. 32 m., morning, W.

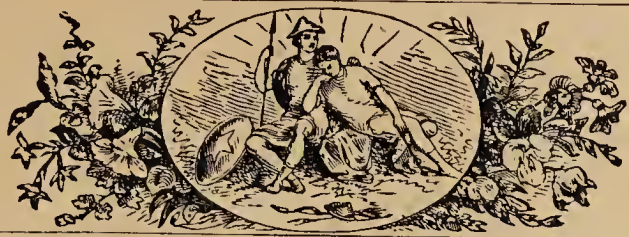
○ Full Moon, 21st day, 12 h. 45 m., morning, W.

☾ Last Quarter, 27th day, 3 h. 17 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 103 THROUGH 109

Day of Year	Day of Month	Day of the Week	☉ Rises. h. m.	Key	☉ Sets. h. m.	Key	Length of Days. h. m.	Sun Fast. m.	Full Sea, Boston. Morn h.	Full Sea, Boston. Even h.	☽ Rises. h. m.	Key	☽ Souths. h. m.	☽'s Place	Moon's Age
121	1	Tu.	4 40	F	6 44	L	14 04	19	7½	8	2A M38	J	8A M26	PSC	25
122	2	W.	4 38	F	6 45	L	14 07	19	8½	9	2 58	I	9 09	ARI	26
123	3	Th.	4 37	E	6 46	M	14 09	19	9¼	9¾	3 17	H	9 51	ARI	27
124	4	Fr.	4 36	E	6 47	M	14 11	19	10	10¼	3A M38	F	10 34	ARI	28
125	5	Sa.	4 35	E	6 48	M	14 13	19	10¾	11	sets	—	11A M18	TAU	29
126	6	♋	4 33	E	6 49	M	14 16	19	11½	11½	7P M56	O	12P M05	TAU	1
127	7	M.	4 32	E	6 50	M	14 18	19	—	0	8 59	P	12 53	G'M	2
128	8	Tu.	4 31	E	6 51	M	14 20	19	0¼	0¾	9 58	Q	1 44	G'M	3
129	9	W.	4 30	E	6 52	M	14 22	19	1	1½	10 40	Q	2 35	G'M	4
130	10	Th.	4 28	E	6 53	M	14 25	19	1½	2¼	11P M33	P	3 26	CNC	5
131	11	Fr.	4 27	E	6 55	M	14 28	19	2¼	3	—	—	4 16	CNC	6
132	12	Sa.	4 26	E	6 56	M	14 30	19	3	3¾	12A M09	O	5 04	LEO	7
133	13	♋	4 25	E	6 57	M	14 32	19	4	4½	12 39	N	5 50	LEO	8
134	14	M.	4 24	E	6 58	M	14 34	19	4¾	5½	1 03	M	6 34	VIR	9
135	15	Tu.	4 23	E	6 59	M	14 36	19	5¾	6¼	1 25	K	7 18	VIR	10
136	16	W.	4 22	E	7 00	N	14 38	19	6¾	7¼	1 45	J	8 03	VIR	11
137	17	Th.	4 21	D	7 01	N	14 40	19	7½	8	2 05	H	8 49	LIB	12
138	18	Fr.	4 20	D	7 02	N	14 42	19	8½	8¾	2 27	G	9 39	LIB	13
139	19	Sa.	4 19	D	7 03	N	14 44	19	9¼	9¾	2 52	F	10 33	SCO	14
140	20	♋	4 18	D	7 04	N	14 46	19	10¼	10½	3A M23	D	11P M33	SCO	15
141	21	M.	4 17	D	7 05	N	14 48	19	11	11¼	rises	—	—	—	—
142	22	Tu.	4 16	D	7 06	N	14 50	19	—	0	9P M29	Q	12A M38	SGR	16
143	23	W.	4 15	D	7 07	N	14 52	19	0	0¾	10 29	P	1 45	CAP	17
144	24	Th.	4 15	D	7 08	N	14 53	19	1	1¾	11 15	O	2 51	CAP	18
145	25	Fr.	4 14	D	7 09	N	14 55	19	2	2¾	11P M50	N	3 53	AQR	19
146	26	Sa.	4 13	D	7 09	N	14 56	19	3	3½	—	—	4 48	AQR	20
147	27	♋	4 12	D	7 10	N	14 58	19	4	4¾	12A M17	L	5 39	PSC	21
148	28	M.	4 12	D	7 11	N	14 59	19	5	5¾	12 40	K	6 25	PSC	22
149	29	Tu.	4 11	D	7 12	N	15 01	19	6	6¾	1 00	I	7 08	PSC	23
150	30	W.	4 11	D	7 13	N	15 02	19	7	7½	1 19	H	7 50	ARI	24
151	31	Th.	4 10	D	7 14	N	15 04	18	8	8½	1A M39	G	8A M33	ARI	25

MAY hath 31 days. [1951



The flower, of ignorant grace,
And the wild, illiterate cherry,
Having no vanity-case
Have only the shining river,—
And that is a rapid ferry
Bearing away, forever,
The look of the flower's grace,
And the wild cherry.

Had they but been to school!
They might look over my shoulder
And see, as in a pool,
The mirroring way of verse,—
Where they grow never older,
Where meter and rhyme rehearse
The young, the beautiful
Beheld and beholder.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Tu.	St. Philip & James ☌ in ♊ Minor Rog. Days {9.4 9.7}	Spring
2	W.	1st No Stop U.S. Flight 1923 ☌ ☿ ☾	is
3	Th.	Ascension D. Tides {9.4 10.0}	at
4	Fr.	Abraham's Second Call B.C. 2055 ☌ ☿ ☾ {9.4 10.2}	hand,
5	Sa.	Kentucky Derby Tides {9.3 10.3}	strike
6	☾	6th S. af. E. ☌ ☌ ☾ Minor Rogation	up
7	M.	Germany Surrended 1945 ☿ Stat. in R.A. {— 8.9}	the
8	Tu.	Pres. Harry Truman Born 1884 Tides {10.1 8.6}	band.
9	W.	☌ ☿ ☿ in Aph. ☾ in Apo. ☾ runs high	Flowers
10	Th.	Dandelions for Supper Tonite? ☌ ☉ ☾ {9.7 8.2}	from
11	Fr.	Snowed 1945 Tides {9.4 8.0}	the
12	Sa.	Latest Ice Out Winnepesaukee, 1888 {9.1 7.9}	showers.
13	☾	Whit. S. Pentecost Mother's Day	Sun
14	M.	Fahrenheit Born 1686 Underground Moon {8.7 8.2}	all
15	Tu.	Woodpeckers & Wrens Here Tides {8.7 8.6}	week
16	W.	Killing Frost 1882 ☌ ♄ ☾ Ember Day {8.8 9.2}	burns
17	Th.	☌ ☿ ☉ ♀ Gr. Hel. Lat. N. Tides {9.1 9.8}	the
18	Fr.	☌ ♆ ☾ Ember Tides {9.4 10.4}	old
19	Sa.	Armed Forces Day Days {9.6 11.0}	man's
20	☾	Trinity S. American Day {9.9 11.4}	beak.
21	M.	Red Cross Fd. 1881 ☾ in Peri. Tides {9.9 11.6}	A
22	Tu.	☌ ☌ ☉ ☿ Gr. El. W. ☾ rides low. {— 9.9}	misty
23	W.	Cattle Lung Disease Ruled Out. Mass., 1859 Tides {11.6 9.7}	day
24	Th.	Corpus Christi Tides {11.4 9.5}	or two
25	Fr.	Gosnold Anchored Buzzards Bay, 1602 Tides {10.9 9.3}	makes
26	Sa.	Mt. Wash. Ry. Begun, 1866 Tides {10.4 9.1}	hay
27	☾	2nd S. a. P. Tides {9.9 9.0}	for
28	M.	Dionne Quints Born, 1934 Tides {9.4 9.1}	you.
29	Tu	King Arthur Died 542 (30th) ♄ Stat. in R.A. Tides {9.1 9.2}	
30	W.	Memorial Day ☿ Gr. Hel. Lat. S. ☌ ☿ ☾ {8.9 9.4}	
31	Th.	Johnstown Flood, 1889 Tides {8.8 9.6}	Rain.

Memorial Day. There was Colonel Jones on his white horse prancing down flag-lined Main Street, perilous with its cobbles and trolley tracks, and all the great parade stretching behind him. The Grand Army Men in their fading blue—but not too faded then—and the spruce Spanish war veterans in their bright blue and gold, band blaring, and little girls in white and little boys in khaki or blue, and firemen and policemen and more bands.

Down Main Street, up Cottage Street, alternately under the good warm sun and through the shadows of the great elms and maples and chestnut trees—shadows as cool as water. The smell of lilacs and lilies-of-the-valley would drift up to us from the garden as we sat on the porch of our great-aunt Mercy (like up-town "sissies"—which we weren't) and watched and heard, and felt our spines tingle with the excitement and strange unrest that is always a parade.

We were very young then and did not follow the marchers (as did the happy "townies"), but sat on the porch as the last band moved out of sight and approached the cemetery, and then we heard the music change to the sad, sad beat of the funeral march. And all the town was hushed, till at last the volleys echoed over the graves, and what was left of the great parade came straggling back to disperse at the street corner and the firehouse. So our parade ended. But the thrill remains.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /
	1	22N.01	7	22 43	13	23 12	19	23 25	25	23 24
	2	22 09	8	22 49	14	25 15	20	23 26	26	23 23
	3	22 16	9	22 54	15	23 18	21	23 27	27	23 21
	4	22 24	10	22 59	16	23 21	22	23 27	28	23 18
	5	22 31	11	23 04	17	23 23	23	23 26	29	23 15
	6	22 37	12	23 08	18	23 24	24	23 26	30	23 12

● New Moon, 4th day, 11 h. 40 m., morning, W.
☽ First Quarter, 12th day, 1 h. 52 m., evening, W.
○ Full Moon, 19th day, 7 h. 36 m., morning, W.
☾ Last Quarter, 26th day, 1 h. 21 m., morning, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 103 THROUGH 109

Day of Year	Day of Month	Day of the Week	☉ Rises. h. m.	Key	☉ Sets. h. m.	Key	Length of Days. h. m.	Sun Fast. m.	Full Sea, Boston. Morn h.	Even h.	☽ Rises. h. m.	Key	☽ Souths. h. m.	☽'s Place	Moon's Age
152	1	Fr.	4 10	D	7 15	N	15 05	18	9	9¼	2ᴬ00	E	.9ᴾ16	TAU	27
153	2	Sa.	4 09	D	7 15	N	15 06	18	9¾	10	2 25	D	10 02	TAU	28
154	3	S.	4 09	D	7 16	O	15 07	18	10½	10½	2ᴬ54	C	10 50	G'M	29
155	4	M.	4 08	C	7 17	O	15 09	18	11	11¼	sets	—	11ᴬ39	G'M	30
156	5	Tu.	4 08	C	7 17	O	15 09	17	11¾	11¾	8ᴾ45	Q	12ᴾ31	G'M	1
157	6	W.	4 07	C	7 18	O	15 11	17	—	0½	9 31	P	1 22	CNC	2
158	7	Th.	4 07	C	7 19	O	15 12	17	0½	1	10 09	P	2 12	CNC	3
159	8	Fr.	4 07	C	7 20	O	15 13	17	1	1¾	10 40	N	3 00	LEO	4
160	9	Sa.	4 07	C	7 20	O	15 13	17	1¾	2½	11 06	M	3 46	LEO	5
161	10	S.	4 06	C	7 21	O	15 15	17	2½	3¼	11 28	L	4 30	LEO	6
162	11	M.	4 06	C	7 21	O	15 15	16	3¼	4	11ᴾ48	J	5 13	VIR	7
163	12	Tu.	4 06	C	7 22	O	15 16	16	4¼	4¾	—	—	5 56	VIR	8
164	13	W.	4 06	C	7 22	O	15 16	16	5	5¾	12ᴬ08	I	6 40	LIB	9
165	14	Th.	4 06	C	7 23	O	15 17	16	6	6½	12 28	H	7 26	LIB	10
166	15	Fr.	4 06	C	7 23	O	15 17	16	7	7½	12 51	F	8 17	SCO	11
167	16	Sa.	4 06	C	7 24	O	15 18	15	8	8¼	1 17	E	9 13	SCO	12
168	17	S.	4 06	C	7 24	O	15 18	15	9	9¼	1 52	C	10 16	SGR	13
169	18	M.	4 06	C	7 24	O	15 18	15	9¾	10	2ᴬ37	E	11ᴾ22	SGR	14
170	19	Tu.	4 06	C	7 25	O	15 19	15	10¾	11	rises	—	—	—	—
171	20	W.	4 06	C	7 25	O	15 19	14	11¾	—	9ᴾ06	O	12ᴬ30	CAP	16
172	21	Th.	4 06	C	7 25	O	15 19	14	0	0½	9 47	N	1 36	CAP	17
173	22	Fr.	4 07	C	7 25	O	15 18	14	0¾	1½	10 18	M	2 36	AQR	18
174	23	Sa.	4 07	C	7 25	O	15 18	14	1¾	2¼	10 43	K	3 30	AQR	19
175	24	S.	4 07	C	7 26	O	15 19	14	2½	3¼	11 04	J	4 20	PSC	20
176	25	M.	4 08	C	7 26	O	15 18	13	3½	4¼	11 24	H	5 05	PSC	21
177	26	Tu.	4 08	C	7 26	O	15 18	13	4½	5¼	11ᴾ44	G	5 49	ARI	22
178	27	W.	4 08	C	7 26	O	15 18	13	5½	6	—	—	6 32	ARI	23
179	28	Th.	4 09	C	7 26	O	15 17	13	6½	7	12ᴬ05	F	7 15	TAU	24
180	29	Fr.	4 09	C	7 26	O	15 17	13	7½	8	12 29	D	8 00	TAU	25
181	30	Sa.	4 09	C	7 26	O	15 17	12	8½	8¾	12ᴬ56	C	8ᴬ47	TAU	26

JUNE hath 30 days. [1951

Look, now! . . . Here's royalty again!
Summer, among us little men . . .
Compelling the uplifted eye,
And the bared head, and the hoarse cry:
'Long live' . . . 'long live' . . . the narrow street
Made royal for the royal feet,
And every innocent heart in town,
In every breast, kneeling down.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Fr.	Nicom. Yankee Doodle First Sung, 1755 Tides 8.7 9.9	The
2	Sa.	Ethelbert Baptised, 597 ☌☿☾ Tides 8.7 10.0	skies
3	G	2nd S. a. T. Hol. South 8.6 10.1	will
4	M.	Mauna Loa Eruption 1950 ☌♂☾ 8.6 10.1	drool
5	Tu.	Socrates Born, 468 B.C. ☾ runs high. ☾ in Apo 8.5 10.0	on
6	W.	Invasion 1944 ☌☉☾ Tides — 8.4	many
7	Th.	First U.S. Bank, 1791 Tides 9.9 8.4	a
8	Fr.	Red Sox 29 St. Louis 4 } 1950 ☌♀☾ 9.8 8.4	fool.
9	Sa.	Laurel in Bloom in N.H. Invasion Moon Tides 9.6 8.4	
10	G	4th S. a. P. Shavuoth Tides 9.3 8.4	
11	M.	Occultation of Star Regulus Tides 9.1 8.6	
12	Tu.	Happy Birthday! Tides 9.0 8.8	Some
13	W.	"In God We Trust", 1808 ☌♄☾ Tides 8.9 9.2	beau-
14	Th.	Flag Day ☌♆☾ Hol. Mo.-Pa. 8.8 9.6	tiful
15	Fr.	St. Bernard Hol. Idaho Tides 9.0 10.2	days,
16	Sa.	Sacred Heart Tides 9.1 10.7	to
17	G	4th S. a. T. □♄☉ Father's Day	the
18	M.	☿ in ♌ [17th Battle Bunker Hill]	Lord
19	Tu.	Year's longest days 19–23 and highest tides 19–20 9.8 11.8	give
20	W.	[19th ☾ rides low. ☾ in Peri ☌☿♂]	praise.
21	Th.	[22nd ☿ in Peri] Tides 9.9	Tornadoes
22	Fr.	SUMMER BEGINS 12:25 a.m. ☉ enters ♋ 11.5 9.8	in
23	Sa.	U.S. Had No Public Debt, 1836 Tides 11.1 9.7	the
24	G	6th S. a. P. John the Baptist born 10.5 9.6	
25	M.	☌☿☉ Sup. ♀ Gr. El. E.	Midwest
26	Tu.	Traditional Old Orchard Beach, Me. bathing day ☌♃☾	and
27	W.	Heinecken, Famous Prodigy Died, 1725 Tides 8.8 9.3	you
28	Th.	Rubens Born, 1577 ☌☿☉ Tides 8.4 9.8	know
29	Fr.	Marry this day luck all the way ♆ Stat. in R.A. 8.2 9.4	the
30	Sa.	Korean "War" 1950 (25th) Tides 8.1 9.6	rest.

Now sing love's tune, under the June moon.

Deer do their full share of damage to our crops—and more. And deer are generally on the increase. Michigan and Wisconsin can tell the story time and again of the complete loss of strawberry crops. Pennsylvania, West Virginia, New York, New England (the country over, for that matter) have seen countless young orchards and other crops either ruined or indefinitely set back.

Now it is evident that the orchardist who sets out a thousand young trees to be browsed by deer or the farmer who plants acres of berries and has them eaten by deer, is not being kept in the orchard business or the berry business simply because the state pays the damages "to date." They both need definite assurance of protection in the future.

Many orchardists have accepted an arrangement whereby the state provides (but does not put up) a deer fence if the owner releases the state from deer damage claims. The fallacy is that few deer fences are complete protection. A deer who couldn't jump twelve feet up and over when pressed (as by dogs) would bury his head in shame under the nearest juniper bush—and he can crawl under any fence *somewhere*.

Deer repellent sprays are on the market, but there is evidence deer just get used to these. So how to protect our crops? Every farmer with a gun? Longer open seasons on deer? More wardens guarding crops?

1951] JULY, SEVENTH MONTH.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.

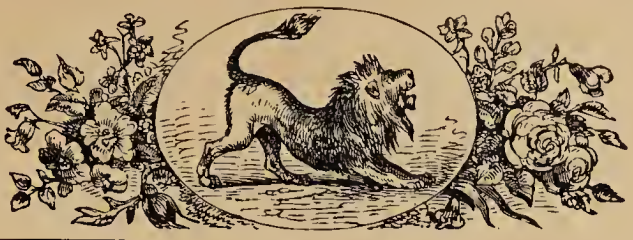
Days.	°	′	Days.	°	′	Days.	°	′	Days.	°	′	Days.	°	′
1	23 N.	08	7	22	38	13	21	53	19	20	55	25	19	44
2	23	04	8	22	31	14	21	44	20	20	44	26	19	31
3	23	00	9	22	25	15	21	35	21	20	33	27	19	18
4	22	55	10	22	17	16	21	26	22	20	21	28	19	05
5	22	50	11	22	10	17	21	16	23	20	09	29	18	51
6	22	44	12	22	02	18	21	06	24	19	57	30	18	36

● New Moon, 4th day, 2 h. 48 m., morning, E.
☽ First Quarter, 11th day, 11 h. 56 m., evening, W.
○ Full Moon, 18th day, 2 h. 17 m., evening, E.
☾ Last Quarter, 25th day, 1 h. 59 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 103 THROUGH 109

Day of Year	Day of Month	Day of the Week.	☉ Rises. h.	m.	Key	☉ Sets. h.	m.	Key	Length of Days. h.	m.	Sun Fast. m.	Full Sea, Boston. Morn h.	Even h.	☽ Rises. h.	m.	Key	☽ Souths. h.	m.	☽'s Place	Moon's Age
182	1	S.	4	10	C	7	26	O	15	16	12	9¼	9½	1 A M	30	B	9 A M	36	G'M	27
183	2	M.	4	10	C	7	25	O	15	15	12	10	10¼	2	11	A	10	27	G'M	28
184	3	Tu.	4	11	C	7	25	O	15	14	12	10¾	10¾	3 A M	00	A	11 A M	18	CNC	29
185	4	W.	4	12	C	7	25	O	15	13	12	11½	11½	sets		—	12 P M	09	CNC	0
186	5	Th.	4	12	C	7	25	O	15	13	11	—	0	8 P M	43	O	12	58	CNC	1
187	6	Fr.	4	13	C	7	25	O	15	12	11	0	0¾	9	10	M	1	44	LEO	2
188	7	Sa.	4	13	C	7	24	O	15	11	11	0¾	1¼	9	33	L	2	29	LEO	3
189	8	S.	4	14	C	7	24	O	15	10	11	1½	2	9	53	K	3	12	VIR	5
190	9	M.	4	15	C	7	23	O	15	08	11	2	2½	10	13	I	3	54	VIR	6
191	10	Tu.	4	15	C	7	23	O	15	08	11	2¾	3¼	10	32	H	4	36	LIB	7
192	11	W.	4	16	D	7	23	N	15	07	10	3¾	4	10	53	G	5	20	LIB	8
193	12	Th.	4	17	D	7	22	N	15	05	10	4½	5	11	17	E	6	08	LIB	9
194	13	Fr.	4	18	D	7	22	N	15	04	10	5½	6	11 P M	46	D	7	00	SCO	10
195	14	Sa.	4	19	D	7	21	N	15	02	10	6½	7	—		—	7	57	SCO	11
196	15	S.	4	19	D	7	20	N	15	01	10	7½	8	12 A M	25	C	9	00	SGR	12
197	16	M.	4	20	D	7	20	N	15	00	10	8½	8¾	1	16	B	10	07	SGR	13
198	17	Tu.	4	21	D	7	19	N	14	58	10	9½	9¾	2 A M	21	A	11 P M	14	CAP	14
199	18	W.	4	22	D	7	18	N	14	56	10	10½	10¾	rises		—	—		—	—
200	19	Th.	4	23	D	7	18	N	14	55	10	11½	11¾	8 P M	18	M	12 A M	17	AQR	15
201	20	Fr.	4	24	D	7	17	N	14	53	10	—	0¼	8	46	L	1	16	AQR	16
202	21	Sa.	4	25	D	7	16	N	14	51	9	0½	1	9	10	J	2	09	PSC	17
203	22	S.	4	25	D	7	15	N	14	50	9	1½	2	9	31	I	2	57	PSC	18
204	23	M.	4	26	D	7	14	N	14	48	9	2¼	2¾	9	51	H	3	43	ARI	19
205	24	Tu.	4	27	D	7	14	N	14	47	9	3¼	3¾	10	12	F	4	27	ARI	20
206	25	W.	4	28	D	7	13	N	14	45	9	4	4½	10	35	E	5	11	ARI	21
207	26	Th.	4	29	D	7	12	N	14	43	9	5	5½	11	02	D	5	56	TAU	22
208	27	Fr.	4	30	D	7	11	N	14	41	9	6	6½	11 P M	33	B	6	43	TAU	23
209	28	Sa.	4	31	D	7	10	M	14	39	9	7	7¼	—		—	7	32	G'M	24
210	29	S.	4	32	E	7	09	M	14	37	9	8	8¼	12 A M	12	A	8	22	G'M	25
211	30	M.	4	33	E	7	07	M	14	34	9	8¾	9	12	59	A	9	13	G'M	26
212	31	Tu.	4	34	E	7	06	M	14	32	9	9¾	9¾	1 A M	53	A	10 A M	04	CNC	27

JULY hath 31 days. [1951



Now, evening and the valley and the river
Are a vast channel for the flowing away
Of all things, here, that were not meant to stay.

And you and I, alone, in the cold starlight,
Are left, and our love is left, that confident wight
Who is teaching us, here, the meaning of forever.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	♋	6th S.a.T. The year's half gone {8.1 9.7 *Wear*	When the price of meat gets too high, good housewives everywhere can just stop buying meat—and the price is sure to come down. But it isn't as simple as that for the farmer and the things he must buy in his business, for he *must* have his fertilizers, insecticides, fungicides, grains, a variety of all-important machinery, and so on if he is to stay in business. He may have to have these things *at any price.* All of us farmers remember the unheard of prices we paid during the war for such items as second-hand manure spreaders (as much as several hundred dollars) . . in fact all of us recall selling some of our old machinery, usually in order to buy something vital to us that our neighbor could spare, at a fat price. (We should certainly be fools to discount the possibility of exactly the same situation again.)
2	M.	Garfield Shot, 1882 ☌☉ ☾runs high {9.1 9.8 *a*	
3	Tu.	☿ Gr. Hel. Lat. N. ☌☍☾ ☌☉☾ {8.8 9.9 *hat*	
4	W.	Ind. Day ⊕ In Aph. Tides {8.4 9.9 *or*	
5	Th.	☌☿☾ □♃☉ Tides {— 8.5 *an*	
6	Fr.	"Woodman Spare that Tree" Tides {9.9 8.6 *awning*	
7	Sa.	St. Frances Cabrini {9.9 8.7 *afternoon*	
8	♋	8th S.af.P. ☌♀☾ {9.8 8.9 *evening*	
9	M.	Gen. Braddock Killed, 1755 □♆☉ {9.6 9.0 *night*	
10	Tu.	134° Death Valley 1913 ☌♄☾ Tides {9.4 9.2 *or*	
11	W.	Feast of the Aposties ☌♆☾ {9.2 9.4 *morning.*	
12	Th.	Whistler Born, 1834 ♀ in ♍ Tides {9.0 9.7	
13	Fr.	Cooler from Now On Hol. Tenn. {8.8 10.0 *Nature*	
14	Sa.	Bastile Day Tides {8.8 10.3 *is*	
15	♋	8th S.a.T. St. Swithun {8.8 10.7 *fickle*	
16	M.	Margaret Fuller Ossoli Died, 1850 ☾rides low. {9.1 11.1 *watch*	
17	Tu.	Kansas City Tornado, 1880 ☾ in Peri. {9.4 11.5 *out*	
18	W.	Mahomet D., 634 Tides {9.7 11.7 *it*	
19	Th.	Bud Fruit Trees Now ☌☌☍ Tides {10.0 11.7 *may*	
20	Fr.	St. Margaret. Tides {— 10.2 *trickle.*	
21	Sa.	Robert Burns Died, 1796 Tides {11.5 10.2	
22	♋	10th S.a.P. M Magdalene. *Days*	
23	M.	Bunker Hill Monument Completed, 1842 {10.0 10.5 *are*	
24	Tu.	First Road Tramway Built, 1801 ☌♃☾ {9.8 9.7 *hot*	
25	W.	St. Chris. DOG DAYS BEGIN {9.1 9.5 *nights*	
26	Th.	Darien, Conn. Congregation ☿ in ♍ {8.5 9.2 *are*	
27	Fr.	Imprisoned, 1781 Tides {8.0 9.1 *not.*	
28	Sa.	World War Began, 1914 Tides {7.7 9.1	
29	♋	10th S.a.T. ♀ Grtst. Brill. {7.8 9.2 *Rain*	
30	M.	☾ in Apo. ☾runs high Tides {7.8 9.8 *again.*	
31	Tu.	☌☍☾ ☌☌☾ Tides {8.0 9.6	

The point of remembering the war days and high prices is that we should have learned something from the experience. There are plenty of farm machinery companies, lots of fertilizer people, and chemical companies galore—all serving the farmer. Such competition ought to make for lower prices. But how many of us think the prices are as reasonable as they should be? Actually now with everything he needs available from many sources, the farmer, like the housewife, is finding the war preparations are gobbling up these needs. America has done it before. "Make do what is on hand."

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /	Days	0 /
	1	18N.07	7	16 32	13	14 47	19	12 54	25	10 53
	2	17 52	8	16 15	14	14 29	20	12 34	26	10 33
	3	17 36	9	15 58	15	14 10	21	12 14	27	10 12
	4	17 21	10	15 40	16	13 51	22	11 54	28	9 51
	5	17 05	11	15 23	17	13 32	23	11 34	29	9 29
	6	16 48	12	15 05	18	13 13	24	11 14	30	9 08

● New Moon, 2nd day, 5 h. 39 m., evening, W.
☽ First Quarter, 10th day, 7 h. 22 m., morning, E.
○ Full Moon, 17th day, 9 h. 59 m., evening, W.
☾ Last Quarter, 24th day, 5 h. 20 m., morning, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 103 THROUGH 109

Day of Year	Day of Month	Day of the Week	☉ Rises. h. m.	Key	☉ Sets. h. m.	Key	Length of Days. h. m.	Sun Fast. m.	Full Sea, Boston. Morn h.	Full Sea, Boston. Even h.	☽ Rises. h. m.	Key	☽ Souths. h. m.	☽'s Place	Moon's Age
213	1	W.	4 35	E	7 05	M	14 30	10	10¼	10½	2AM54	B	10AM54	CNC	28
214	2	Th.	4 36	E	7 04	M	14 28	10	11	11	sets	—	11AM42	LEO	29
215	3	Fr.	4 37	E	7 03	M	14 26	10	11½	11¾	7PM38	L	12PM27	LEO	1
216	4	Sa.	4 38	E	7 02	M	14 24	10	—	0¼	7 59	K	1 11	VIR	2
217	5	♋	4 39	E	7 00	M	14 21	10	0¼	0¾	8 19	J	1 53	VIR	3
218	6	M.	4 40	E	6 59	M	14 19	10	1	1¼	8 38	H	2 36	VIR	4
219	7	Tu.	4 41	E	6 58	M	14 17	10	1½	2	8 58	G	3 19	LIB	5
220	8	W.	4 42	E	6 57	M	14 15	10	2¼	2¾	9 21	F	4 04	LIB	6
221	9	Th.	4 43	E	6 55	M	14 12	10	3¼	3½	9 47	D	4 54	SCO	7
222	10	Fr.	4 44	E	6 54	M	14 10	10	4	4½	10 21	C	5 47	SCO	8
223	11	Sa.	4 46	F	6 53	L	14 07	11	5	5½	11PM05	B	6 46	SGR	9
224	12	♋	4 47	F	6 51	L	14 04	11	6	6½	—	—	7 50	SGR	10
225	13	M.	4 48	F	6 50	L	14 02	11	7¼	7½	12AM02	A	8 55	CAP	11
226	14	Tu.	4 49	F	6 48	L	13 59	11	8¼	8¾	1 12	B	10 00	CAP	12
227	15	W.	4 50	F	6 47	L	13 57	11	9¼	9½	2 32	C	10 59	AQR	13
228	16	Th.	4 51	F	6 45	L	13 54	11	10¼	10½	3AM55	D	11PM54	AQR	14
229	17	Fr.	4 52	F	6 44	L	13 52	12	11	11½	rises	—	—	—	—
230	18	Sa.	4 53	F	6 42	L	13 49	12	—	0	7PM33	J	12AM45	PSC	15
231	19	♋	4 54	F	6 41	L	13 47	12	0¼	0¾	7 53	H	1 33	PSC	16
232	20	M.	4 55	F	6 39	L	13 44	12	1	1½	8 14	G	2 19	ARI	17
233	21	Tu.	4 56	F	6 38	L	13 42	13	1¾	2¼	8 37	E	2 54	ARI	18
234	22	W.	4 57	F	6 36	L	13 39	13	2¾	3	9 02	D	3 49	TAU	19
235	23	Th.	4 58	F	6 35	L	13 37	13	3½	3¾	9 32	C	4 36	TAU	20
236	24	Fr.	4 59	G	6 33	K	13 33	13	4½	4¾	10 08	B	5 25	G'M	21
237	25	Sa.	5 00	G	6 32	K	13 31	14	5¼	5¾	10 52	A	6 15	G'M	23
238	26	♋	5 01	G	6 30	K	13 29	14	6¼	6¾	11PM44	—	7 07	G'M	24
239	27	M.	5 03	G	6 28	K	13 25	14	7½	7½	—	A	7 58	CNC	25
240	28	Tu.	5 04	G	6 27	K	13 23	14	8¼	8½	12AM43	B	8.49	CNC	26
241	29	W.	5 05	G	6 25	K	13 20	15	9	9¼	1 47	C	9 37	LEO	27
242	30	Th.	5 06	G	6 23	K	13 17	15	9¾	10	2 53	D	10 24	LEO	28
243	31	Fr.	5 07	G	6 22	K	13 15	15	10½	10½	4AM00	F	11AM08	LEO	29

AUGUST hath 31 days. [1951

Doe in the street, at noon!
Wildness . . . and strangeness!
And the citizens startled,
And urchins running, with sticks,
And the warden, grim, with his gun . . .
And the doe gone!
And the street, common again;
The citizens busy, the urchins nowhere,
Nor the warden . . .
Only noon, and dullness.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	W.	Lammas Day. Hol. Col. Tides 8.2 9.7	. *If*
2	Th.	Myrna Loy Born Tides 8.5 9.9	*good*
3	Fr.	Mercury Now Evening Star ☿ Gr. El. E. 8.8 10.0	*weather*
4	Sa.	Heat Wave 1944 ☽ Stat. in R.A. — 9.0	*you*
5	☾	12th S. a. ♆. ☌☿☾ ☌♀☾ ☿ in Aph.	
6	M.	Transfiguration ☌♄☾ 10.0 9.5	*seek*
7	Tu.	Name of Jesus Tides 9.8 9.7	*vacation this*
8	W.	Thermopylae 480, B.C. ☌♆☾ 9.6 9.8	*week.*
9	Th.	First Steam Locomotive, 1831 Tides 9.3 9.9	
10	Fr.	St. Laurence. ♀ Stat. in R. A. Tides 9.0 10.0	*High*
11	Sa.	Hay Fever Begins Tides 8.7 10.1	*winds*
12	☾	12th S. a. ☾. ☌♀☉ 8.5 10.2	*may*
13	M.	Consecration of the ☾ rides low. 8.6 10.5	*keep*
14	Tu.	Liberty Tree Boston, 1765 ☾ in Peri. 8.9 10.9 Hol. R.I.	*the*
15	W.	Assumption ♀ in Aph Tides 9.4 11.2	*rain*
16	Th.	Battle of Bennington, Vt. ☿ Stat. in R.A. 9.9 11.4	*away.*
17	Fr.	Fulton's Steamboat made Albany, 1807 Tides 10.3 11.4	
18	Sa.	Lowest Bar. 26,185 Near Luzon, 1927 Tides — 10.5	
19	☾	14th S. a. ♆. Tides 11.2 10.6	*No*
20	M.	Boston Water Works Begun, 1846 ☌☽ ☾	*summer*
21	Tu.	Charter Oak Blew Down, 1856 10.2 10.2	*droughts*
22	W.	Ann Franklin Became 1st Woman Paper Ed., 1762 9.6 9.9	*this*
23	Th.	Medford Tornado, 1851 Tides 8.9 9.5	*year*
24	Fr.	St. Barth. United Nations Tides 8.2 9.1	*say*
25	Sa.	Hurricane Fla., 1949 Tides 7.7 8.9	*the*
26	☾	14th S. a. ☾. ☾ runs high ☾ in Apo. 7.5 8.8	
27	M.	☌☉☾ [26th ☿ Gr. Hel. Lat. S.]	*gurgling*
28	Tu.	All Time Heat Drought Record, 1949 7.7 9.0	*eaves*
29	W.	John the Baptist beheaded ☌ ☽ ☾	*troughs.*
30	Th.	St. Fiacrius, Hol. La. Tides 8.4 9.6	
31	Fr.	Kingston, R.I. Rain, 1939 ☌ ☿ ☉ Inf. Tides 8.8 9.8	

Up to a certain point system on a farm is feasible, important, and quite simple:—all machinery kept in place regular feeding and milking times, daily sweep-up with the barn broom, and so on. Such things are so on any good farm and are taken for granted. But beyond that there can be stretches of farm life where any system may break down. For farming can be the most chaotic, unpredictable, perverse, heartbreaking business in the world.

Farmer Brown is toasting his feet in the oven of a bitter February afternoon—and, in his dreaming and planning, his fat acres are plowed, harrowed, seeded, crops matured and marketed, barns filled—all with the Utopian simplicity of an assembly line.

Farmer Brown is an old fool this afternoon, and he knows it. Get him out in the hay field next July turning some gray, weather-beaten hay that's been rained on three times already before he could get it in—or in the barn during the terrible and unforeseen spring cold wave just at lambing time—just take him about any time except to-day, and you'll find him wading knee deep in unsystematic trouble.

But he'll tell you he doesn't carry trouble with him: "Got a better use for my arms and back." And if things look really bad: "It didn't turn out just as I expected, and I didn't expect it would."

1951] SEPTEMBER, NINTH MONTH.

ASTRONOMICAL CALCULATIONS.

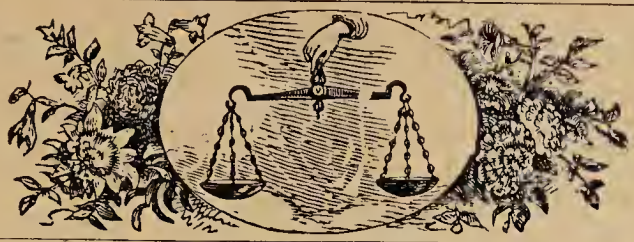
☉'s Declination.	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /
	1	8N.25	7	6 12	13	3 56	19	1 37	25	0 43
	2	8 03	8	5 50	14	3 33	20	1 14	26	1 06
	3	7 41	9	5 27	15	3 10	21	0 51	27	1 29
	4	7 19	10	5 05	16	2 47	22	0 27	28	1 53
	5	6 57	11	4 42	17	2 24	23	0N.04	29	2 16
	6	6 35	12	4 19	18	2 01	24	0S. 19	30	2 40

● New Moon, 1st day, 7 h. 49 m., morning, W.
☽ First Quarter, 8th day, 1 h. 16 m., evening, W.
○ Full Moon, 15th day, 7 h. 38 m., morning, E.
☾ Last Quarter, 22nd day, 11 h. 13 m., evening, E.
● New Moon, 30th day, 8 h. 57 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 103 THROUGH 109

Day of Year	Day of Month	Day of the Week	☉ Rises. h. m.	Key	☉ Sets. h. m.	Key	Length of Days. h. m.	Sun Fast. m.	Full Sea, Boston. Morn h.	Even h.	☽ Sets. h. m.	Key	☽ Souths. h. m.	☽'s Place	Moon's Age
244	1	Sa.	5 08	G	6 20	K	13 12	16	11	11¼	—	—	11A51	VIR	0
245	2	S.	5 09	G	6 18	K	13 09	16	11½	—	6P44	I	12P34	VIR	1
246	3	M.	5 10	G	6 17	K	13 07	16	0	0¼	7 04	G	1 18	LIB	2
247	4	Tu.	5 11	G	6 15	K	13 04	17	0½	0¾	7 26	F	2 03	LIB	3
248	5	W.	5 12	G	6 13	J	13 01	17	1¼	1½	7 51	E	2 51	SCO	4
249	6	Th.	5 13	H	6 12	J	12 59	17	2	2¼	8 22	C	3 43	SCO	5
250	7	Fr.	5 14	H	6 10	J	12 56	18	2¾	3	9 02	B	4 40	SGR	6
251	8	Sa.	5 15	H	6 08	J	12 53	18	3¾	4	9 53	A	5 41	SGR	7
252	9	S.	5 16	H	6 06	J	12 50	18	4¾	5	10P57	B	6 44	CAP	8
253	10	M.	5 17	H	6 05	J	12 48	19	5¾	6¼	—	—	7 46	CAP	9
254	11	Tu.	5 18	H	6 03	J	12 45	19	7	7¼	12A12	B	8 46	AQR	11
255	12	W.	5 20	H	6 01	J	12 41	19	8	8½	1 32	D	9 42	AQR	12
256	13	Th.	5 21	H	5 59	J	12 38	20	9	9½	2 51	E	10 33	PSC	13
257	14	Fr.	5 22	H	5 58	J	12 36	20	10	10¼	4A08	G	11P22	PSC	14
258	15	Sa.	5 23	H	5 56	J	12 33	20	10¾	11	rises	—	—	—	—
259	16	S.	5 24	H	5 54	J	12 30	21	11½	—	6P16	G	12A08	ARI	15
260	17	M.	5 25	H	5 52	J	12 27	21	0	0¼	6 38	F	12 54	ARI	16
261	18	Tu.	5 26	I	5 51	I	12 25	21	0¾	1	7 03	E	1 40	ARI	17
262	19	W.	5 27	I	5 49	I	12 22	22	1½	1¾	7 30	C	2 27	TAU	18
263	20	Th.	5 28	I	5 47	I	12 19	22	2	2½	8 05	B	3 16	TAU	19
264	21	Fr.	5 29	I	5 45	I	12 16	23	3	3¼	8 46	A	4 07	G'M	20
265	22	Sa.	5 30	I	5 43	I	12 13	23	3¾	4	9 35	A	4 58	G'M	21
266	23	S.	5 31	I	5 42	I	12 11	23	4¾	5	10 31	B	5 50	CNC	22
267	24	M.	5 32	I	5 40	I	12 08	24	5¾	6	11P33	B	6 41	CNC	23
268	25	Tu.	5 33	I	5 38	I	12 05	24	6¾	7	—	—	7 30	CNC	24
269	26	W.	5 34	I	5 36	I	12 02	24	7½	7¾	12A38	D	8 17	LEO	25
270	27	Th.	5 36	I	5 35	I	11 59	25	8½	8¾	1 44	E	9 02	LEO	26
271	28	Fr.	5 37	I	5 33	I	11 56	25	9¼	9½	2 51	F	9 46	VIR	27
272	29	Sa.	5 38	J	5 31	H	11 53	25	9¾	10	3A58	H	10 29	VIR	28
273	30	S.	5 39	J	5 29	H	11 50	26	10½	10¾	sets	—	11A13	LIB	29

SEPTEMBER hath 30 days. [1951



The meadow, gay with flowers, like music gay,
The wild notes blossoming for the steps of dancers,
Is drunk with sun and with dark, nether liquors.
I keep my decorous feet to the sober road;
The meadow's not for gaberdine and oxfords
And a tweed jacket—and incipient baldness.
I hurry on to cocktails, where the hostess
May know a trick of mixing this and that
To point the ears, again, and slant the eyes.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Sa.	☉ Annular Eclipse ☌☿☾ ☌♀☾	*Outdoors*
2	C	16th S.a.℗. Tides 9.6 10.1	*it*
3	M.	Labor Day ☌♄☾ ☌♀☉ inf.	*pours.*
4	Tu.	Hudson Disc. N.Y., 1609 ☌♆☾ 10.0 10.1	*This*
5	W.	Acadians Exiled, 1755 Tides 9.9 10.3	*way,*
6	Th.	Mayflower Sailed, 1620 Tides 9.6 10.3	*that*
7	Fr.	♀ Gr Hel. Lat S. Tides 9.8 10.3	*way,*
8	Sa.	Virgin Mary born ☿ Stat. in R.A. 8.9 10.1	*sun*
9	C	16th S.a.♏. ☾ rides low 8.5 10.0	*goes,*
10	M.	Election Day Down Maine Tides 8.4 10.0	*sun*
11	Tu.	Columbus Finally Back ☾ in Peri 8.6 10.2	*stays.*
12	W.	to Spain 1504 ☌☿♀ Hol. Md. 9.0 10.4	*Sailors*
13	Th.	John J. Pershing Born, 1860 Tides 9.5 10.7	*beware,*
14	Fr.	Holy Cross. ☿ in ♌ 10.1 10.9	*farmers*
15	Sa.	HARVEST MOON Tides 10.5 10.9	*take*
16	C	18th S.a.℗. ☿ Gr. El. W. ☌♄☾	*care:*
17	M.	Constitution Day Tides — 10.7	*with*
18	Tu.	N.E. Hurricane 17–21, 1938 ☿ in Peri 10.8 10.6	*good*
19	W.	Caxton's First English Book, 1471 Ember Day	*reason,*
20	Th.	Prince of Wales in Detroit, 1860 Tides 9.2 9.9	*it's*
21	Fr.	St. Mathew. Ember Days	*hurricane*
22	Sa.	☾ runs high	*season.*
23	C	18th S.a.♏. Fall Begins 3.38 P.M. ☉ enters ♎	
24	M.	[23rd ☿ Stat. in R.A. ☾ in Apo.] ☌☉☾	*Nippy*
25	Tu.	Earliest Killing Frost, 1879 Tides 7.5 8.6	*and*
26	W.	Days and nights nearly equal Tides 7.8 8.3	*zippy*
27	Th.	☌♂☾ ☌♀☾ Tides 8.2 9.1	*these*
28	Fr.	American Indian Day ☿ Gr. Hel. Lat. N. 8.7 9.4	*days*
29	Sa.	Michaelmas ☌♄☉ [30th ☌♄☾]	*are*
30	C	20th S.a.℗. ☌☿☾ D.S.T. ends	*pippy.*

TWO NEW MOONS THIS MONTH

My dear "aunt" (by courtesy in the good old New England way) used to have a saying that I have oft repeated to myself—"There is nothing nicer than a little bit of money." I think she was smug about it and *really* kept her coins and small bills behind the clock or in the cupboard. But then this is but a memory and, financially speaking, I don't know how she "cut up" when she died. I wasn't in on that.

Be that as it may, dear "auntie" was right. What could be nicer than a little bit of money? What *could* be? The funny part of it is that few of us know much about this now. Where would we get that "little bit of money" nowadays to put behind the clock or the television? Mostly we wait till we're overdrawn at the bank and then borrow on the life insurance or go to the finance corporation. What's left for the clock or the television?

But we are philosophers here on the farm. If we are lucky we are carried by the bank till the crop comes in; the fertilizer people will wait us out; the spray and dust people will stay with us until—; and the fellows who supply us with packs and boxes and have agreed to buy our crop: all are as patient as cats at a mouse hole—till the crop comes in.

"Auntie" you were so right about "a little bit of money." But *where* did you find it?

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /
	1	3s. 03	7	5 22	13	7 38	19	9 51	25	11 59		
	2	3 26	8	5 45	14	8 01	20	10 13	26	12 20		
	3	3 49	9	6 08	15	8 23	21	10 34	27	12 40		
	4	4 13	10	6 31	16	8 45	22	10 56	28	13 00		
	5	4 36	11	6 53	17	9 07	23	11 17	29	13 20		
	6	4 59	12	7 16	18	9 29	24	11 38	30	13 40		

☽ First Quarter, 7th day, 7 h. 00 m., evening, W.

○ Full Moon, 14th day, 7 h. 51 m., evening, W.

☾ Last Quarter, 22nd day, 6 h. 55 m., evening, E.

● New Moon, 30th day, 8 h. 54 m., morning, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 103 THROUGH 109

Day of Year	Day of Month	Day of the Week	☉ Rises. h. m.	Key	☉ Sets. h. m.	Key	Length of Days. h. m.	Sun Fast. m.	Full Sea, Boston. Morn h.	Full Sea, Boston. Even h.	☽ Sets. h. m.	Key	☽ Souths. h. m.	☽'s Place	Moon's Age
274	1	M.	5 40	J	5 28	H	11 48	26	11	11½	5$^{P}_{M}$30	G	11$^{A}_{M}$58	LIB	1
275	2	Tu.	5 41	J	5 26	H	11 45	26	11¾	—	5 54	E	12$^{P}_{M}$46	LIB	2
276	3	W.	5 42	J	5 24	H	11 42	27	0	0¼	6 23	D	1 38	SCO	3
277	4	Th.	5 43	J	5 22	H	11 39	27	0¾	1	7 01	C	2 35	SCO	4
278	5	Fr.	5 44	J	5 21	H	11 37	27	1½	2	7 50	B	3 35	SGR	5
279	6	Sa.	5 45	J	5 19	H	11 34	27	2½	2¾	8 50	A	4 37	SGR	6
280	7	S.	5 47	J	5 17	H	11 30	28	3½	3¾	10 01	B	5 40	CAP	7
281	8	M.	5 48	J	5 16	H	11 28	28	4½	4¾	11$^{P}_{M}$18	C	6 39	CAP	8
282	9	Tu.	5 49	J	5 14	H	11 25	28	5½	6	—	—	7 34	AQR	9
283	10	W.	5 50	K	5 12	G	11 22	29	6¾	7¼	12$^{A}_{M}$36	E	8 26	AQR	10
284	11	Th.	5 51	K	5 11	G	11 20	29	7¾	8¼	1 52	F	9 15	PSC	11
285	12	Fr.	5 52	K	5 09	G	11 17	29	8¾	9¼	3 05	H	10 01	PSC	12
286	13	Sa.	5 53	K	5 07	G	11 14	29	9½	10	4$^{A}_{M}$16	I	10 46	ARI	13
287	14	S.	5 54	K	5 06	G	11 12	30	10¼	10¾	rises	—	11$^{P}_{M}$31	ARI	14
288	15	M.	5 56	K	5 04	G	11 08	30	11	11½	5$^{P}_{M}$04	E	—	—	—
289	16	Tu.	5 57	K	5 02	G	11 05	30	11¾	—	5 30	D	12$^{A}_{M}$18	TAU	15
290	17	W.	5 58	K	5 01	G	11 03	30	0¼	0½	6 02	C	1 06	TAU	16
291	18	Th.	5 59	K	4 59	G	11 00	30	1	1	6 41	B	1 57	G'M	17
292	19	Fr.	6 00	K	4 58	G	10 58	31	1¾	1¾	7 27	A	2 49	G'M	18
293	20	Sa.	6 01	K	4 56	G	10 55	31	2½	2½	8 21	A	3 41	G'M	19
294	21	S.	6 03	K	4 55	G	10 52	31	3¼	3½	9 20	B	4 32	CNC	20
295	22	M.	6 04	L	4 53	F	10 49	31	4	4¼	10 24	C	5 22	CNC	21
296	23	Tu.	6 05	L	4 52	F	10 47	31	5	5¼	11$^{P}_{M}$28	D	6 09	LEO	22
297	24	W.	6 06	L	4 50	F	10 44	31	6	6¼	—	—	6 55	LEO	23
298	25	Th.	6 07	L	4 49	F	10 42	32	6¾	7	12$^{A}_{M}$34	F	7 38	LEO	24
299	26	Fr.	6 09	L	4 47	F	10 38	32	7¾	8	1 40	G	8 21	VIR	25
300	27	Sa.	6 10	L	4 46	F	10 36	32	8½	8¾	2 46	I	9 05	VIR	27
301	28	S.	6 11	L	4 44	F	10 33	32	9¼	9½	3 55	J	9 49	LIB	28
302	29	M.	6 12	L	4 43	F	10 31	32	9¾	10¼	5$^{A}_{M}$07	L	10 36	LIB	29
303	30	Tu.	6 14	L	4 42	F	10 28	32	10½	11	sets	—	11$^{A}_{M}$28	SCO	0
304	31	W.	6 15	L	4 40	F	10 25	32	11¼	11¾	4$^{P}_{M}$58	C	12$^{P}_{M}$24	SCO	1

OCTOBER hath 31 days. [1951

The changes on his tree
Correct the watcher's year
His personal zodiac . . .
Objectify, make clear
The instant of to be,
Whether in leaf or lack.

His own ambivalent mind,
Or heart, or wistful eye,
In Janus-like unreason,
Looks back at what's gone by,
Or forward, and is blind
To what is here, in season.

I keep a tree, whose bough
Stands at the noon of Now.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	
1	M.	Jewish New Year ☌♆☾ Tides {10.1 9.9	Cool
2	Tu.	Jupiter Now Morning Star ☌♃☉ {10.5 —	and
3	W.	First Thanksgiving Holiday, 1863 Tides {9.9 10.7	clear
4	Th.	Francis of Assissi Tides {9.8 10.7	best
5	Fr.	Girls Beware of the Red Ear Tides {9.5 10.6	of the
6	Sa.	☾ rides low. ☌☿♄ [7th ☾ in Peri. □♁☉]	
7	☾	20th S. a. T. Mission S.	
8	M.	Trees are Blushing Tides {8.5 9.8	year.
9	Tu.	St. Denys Tides {8.5 9.7	No
10	W.	Atonement ♀ Great Brilliancy	use
11	Th.	Rained 23.2" at Smyrma, Fla., 1924 {9.2 9.9	fretting
12	Fr.	Columbus Day ♃ Gr. Hei. Lat. S. {9.7 10.1	but
13	Sa.	☌♆☉ ☌☿☉ Sup. ☌☿♆ ☌♃☾	
14	☾	22nd S. a. P. Hunter's Moon	you'll
15	M.	Succoth Aurora Borealis Covers B.I., 1949 {10.7 10.0	sure
16	Tu.	Barometer Invented, 1608 Tides {10.7 —	get a
17	W.	Chopin Died, 1849 Tides {9.6 10.5	wetting.
18	Th.	St. Luke. Tides {9.2 10.2	Farewell
19	Fr.	Hadley, Mass., Repulsed Indians, 1676	to summer
20	Sa.	☾ runs high ♁ Stat. in R.A. Tides {8.3 9.4	as
21	☾	22nd S. a. T. ☾ in Apo. ☌♁☾ {8.0 9.0	
22	M.	World Did Not End, 1844 ☿ in ♍ {7.8 8.7	winter
23	Tu.	Simchath Torah World Created 4004 B.C.	hurries
24	W.	Daniel Webster Died, 1852 Tides {7.8 8.5	with a
25	Th.	Hi, neighbor! Male Child Most Likely If Conceived 25–31	few
26	Fr.	☌☌☾ ☌☿☾	snow
27	Sa.	[28th ☌♄☾] Tides {9.0 9.1	flurries.
28	☾	24th S. a. T. Simon & Jude Christ the King {9.6 9.4	
29	M.	☌♆☾ Tides {10.2 9.6	Coolin'
30	Tu.	Tower of London Burned, 1841 Tides {10.6 9.7	no
31	W.	Halloween. ☌☿☾ Hol. Nev. {11.0 9.7	foolin'.

Farmer's Calendar.

This is harvest time in the apple orchards—at least for the later varieties here in New England—the Baldwins in our older orchards, the Cortlands, the Golden Delicious and Red Delicious, and the fine Red Romes that are beginning to be introduced where the season of growing is long enough. But where are the apples of yesteryear?

For earlier picking our old-time "eating" orchard would have produced August Sweet, Williams, Belleflower, Porter, Snow, and about now Golden Russet (what better cider apple?); the still respected Baldwin, the Fall Pippin, the Hubbardston.

There are some of us who would bring back for family use many of these fine fruits—especially the White Belleflower, the Golden Russet, and the Porter. We remember the latter with most affection, for it was the one that Mother always asked for when she wanted to make apple jelly—or mint jelly—(I can see the great juicy bags dripping in the kitchen), and we knew it as the richest in pectin.

We cannot, in reminiscent mood, pass over yet the Golden Russet. To-day the term "russeting" is one of opprobrium—as on the Delicious apples—and we use special sprays at fancy prices to try to prevent this. But the rough russeting of our golden fruit was natural and its chief virtue, I have thought—making for juiceness, prime flavor.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.

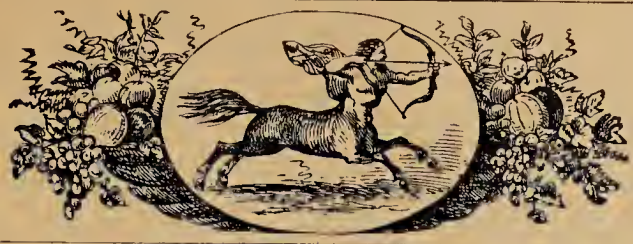
Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /	Days.	0 /
1	14s. 19	7	16 11	13	17 53	19	19 23	25	20 41
2	14 38	8	16 28	14	18 08	20	19 37	26	20 53
3	14 57	9	16 46	15	18 24	21	19 51	27	21 04
4	15 16	10	17 03	16	18 39	22	20 04	28	21 15
5	15 35	11	17 20	17	18 54	23	20 17	29	21 26
6	15 53	12	17 36	18	19 09	24	20 29	30	21 36

☽ First Quarter, 6th day, 1 h. 59 m., morning, E.
○ Full Moon, 13th day, 10 h. 52 m., morning, E.
☾ Last Quarter, 21st day, 3 h. 01 m., evening, E.
● New Moon, 28th day, 8 h. 00 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 103 THROUGH 109

Day of Year	Day of Month	Day of the Week	☉ Rises. h. m.	Key	☉ Sets. h. m.	Key	Length of Days. h. m.	Sun Fast. m.	Full Sea, Boston. Morn h.	Full Sea, Boston. Even h.	☽ Sets. h. m.	Key	☽ Souths. h. m.	☽'s Place	Moon's Age
305	1	Th.	6 16	L	4 39	F	10 23	32	—	0	$5^{P}_{M}45$	B	$1^{P}_{M}24$	SGR	2
306	2	Fr.	6 17	L	4 38	F	10 21	32	$0\frac{1}{2}$	$0\frac{3}{4}$	6 42	A	2 28	SGR	3
307	3	Sa.	6 19	L	4 37	F	10 18	32	$1\frac{1}{4}$	$1\frac{3}{4}$	7 50	B	3 32	CAP	4
308	4	☪	6 20	M	4 35	E	10 15	32	$2\frac{1}{4}$	$2\frac{1}{2}$	9 08	C	4 34	CAP	5
309	5	M.	6 21	M	4 34	E	10 13	32	$3\frac{1}{4}$	$3\frac{1}{2}$	10 26	D	5 31	AQR	6
310	6	Tu.	6 22	M	4 33	E	10 11	32	$4\frac{1}{4}$	$4\frac{3}{4}$	$11^{P}_{M}42$	F	6 24	AQR	7
311	7	W.	6 24	M	4 32	E	10 08	32	$5\frac{1}{2}$	$5\frac{3}{4}$	—	—	7 12	PSC	8
312	8	Th.	6 25	M	4 31	E	10 06	32	$6\frac{1}{2}$	$6\frac{3}{4}$	$12^{A}_{M}55$	G	7 58	PSC	9
313	9	Fr.	6 26	M	4 30	E	10 04	32	$7\frac{1}{2}$	8	2 05	I	8 43	ARI	10
314	10	Sa.	6 27	M	4 29	E	10 02	32	$8\frac{1}{4}$	$8\frac{3}{4}$	3 14	J	9 27	ARI	12
315	11	☪	6 29	M	4 27	E	9 58	32	$9\frac{1}{4}$	$9\frac{3}{4}$	4 23	L	10 12	TAU	13
316	12	M.	6 30	M	4 26	E	9 56	32	10	$10\frac{1}{2}$	$5^{A}_{M}31$	M	11 00	TAU	14
317	13	Tu.	6 31	M	4 25	E	9 54	32	$10\frac{3}{4}$	$11\frac{1}{4}$	rises	—	$11^{P}_{M}49$	TAU	15
318	14	W.	6 32	M	4 24	E	9 52	31	$11\frac{1}{4}$	$11\frac{3}{4}$	$4^{P}_{M}37$	B	—	—	—
319	15	Th.	6 34	M	4 24	E	9 50	31	—	0	5 20	B	$12^{A}_{M}40$	G'M	16
320	16	Fr.	6 35	M	4 23	E	9 48	31	$0\frac{1}{2}$	$0\frac{3}{4}$	6 12	A	1 32	G'M	17
321	17	Sa.	6 36	M	4 22	E	9 46	31	$1\frac{1}{4}$	$1\frac{1}{4}$	7 09	B	2 24	CNC	18
322	18	☪	6 37	N	4 21	D	9 44	31	2	2	8 11	C	3 14	CNC	19
323	19	M.	6 39	N	4 20	D	9 41	30	$2\frac{3}{4}$	$2\frac{3}{4}$	9 15	D	4 03	CNC	20
324	20	Tu.	6 40	N	4 20	D	9 40	30	$3\frac{1}{2}$	$3\frac{3}{4}$	10 19	E	4 48	LEO	21
325	21	W.	6 41	N	4 19	D	9 38	30	$4\frac{1}{4}$	$4\frac{1}{2}$	$11^{P}_{M}24$	G	5 32	LEO	22
326	22	Th.	6 42	N	4 18	D	9 36	30	$5\frac{1}{4}$	$5\frac{1}{2}$	—	—	6 14	VIR	23
327	23	Fr.	6 43	N	4 17	D	9 34	29	6	$6\frac{1}{4}$	$12^{A}_{M}28$	H	6 56	VIR	24
328	24	Sa.	6 45	N	4 17	D	9 32	29	7	$7\frac{1}{4}$	1 34	I	7 39	LIB	25
329	25	☪	6 46	N	4 16	D	9 30	29	$7\frac{3}{4}$	8	2 43	K	8 24	LIB	26
330	26	M.	6 47	N	4 16	D	9 29	29	$8\frac{1}{2}$	9	3 56	L	9 13	SCO	27
331	27	Tu.	6 48	N	4 15	D	9 27	28	$9\frac{1}{4}$	$9\frac{3}{4}$	$5^{A}_{M}13$	N	10 07	SCO	28
332	28	W.	6 49	N	4 15	D	9 26	28	10	$10\frac{1}{2}$	sets	—	$11^{A}_{M}06$	SGR	29
333	29	Th.	6 50	N	4 14	D	9 24	28	$10\frac{3}{4}$	$11\frac{1}{2}$	$4^{P}_{M}26$	A	$12^{P}_{M}10$	SGR	1
334	30	Fr.	6 51	N	4 14	D	9 23	27	$11\frac{3}{4}$	—	$5^{P}_{M}33$	B	$1^{P}_{M}17$	CAP	2

NOVEMBER hath 30 days. [1951



The singer, being such
As loves the naming word,
The singing name of things
That's nearly sight and touch,
Now, naked and absurd,
Sits in his lack, and sings.

D. M.	D. W.	Aspects, Holidays, Heights of High Water, Weather, etc.
1	Th.	All Saints Day, ☿ in Aph. {— 11.1 *There's*
2	Fr.	♂ Gr. Hel. Lat. N. ♀ in ♌ ☾ in Peri. ☾ rides low.
3	Sa.	Winant Suicide 1947 Tides {9.4 10.9 *chills in*
4	☾	24th S. a. ☾. Hol. Okla. {9.1 10.5 *them*
5	M.	Fawkes Day Tides {8.9 10.1 *there*
6	Tu.	Election Day. Tides {8.7 9.7 *hills.*
7	W.	Tippecanoe 1811 Tides {8.8 9.4 *Milder*
8	Th.	No. Dakota Storm, 1945 Tides {9.0 9.3 *and*
9	Fr.	Bangor St. John R.R. Began, 1865 Tides {9.4 9.4 *dandy*
10	Sa.	Oliver Goldsmith Born, 1728 ♂♃☾ {9.7 9.4 *but*
11	M.	26th S. a. ♇. Armistice Day {10.1 9.4 *keep*
12	☾	S.S. Vestris Disaster, 1928 Tides {10.3 9.3 *your*
13	Tu.	Indian Summer begins Tides {10.4 9.1 *coat*
14	W.	Prince Charles Born, 1948 ♀ Gr. El. W. {10.4 8.9 *handy.*
15	Th.	Royal Meteorological Society Fd., 1823 Tides {— 10.3 *No*
16	Fr.	U.S.A. Recognized U.S.S.R., 1933 ☾ runs high *Indian*
17	Sa.	Eli Terry Clock Patent, 1794 ♂ ☌ ☾ *summer*
18	☾	26th S. a. ☾. ☾ in Apo. {8.3 9.4 *this*
19	M.	"Man With Iron Mask" Died, 1703 Tides {8.1 9.1 *year,*
20	Tu.	Prestwick Air Tragedy, 1948 Tides {8.0 8.8 *cold*
21	W.	Mayflower Compact ♃ in Peri ♂♀♄ *weather*
22	Th.	Thanksgiving ☿ Gr. Hel. Lat. S. {8.2 8.5 *is*
23	Fr.	Prof. Webster k. Dr. Parkman, 1849 Hol. Md. {8.5 8.5 *here.*
24	Sa.	♂♂☾ [25th ♂♄☾ ♂♀☾ ♂♆☾]
25	☾	28th S. a. ♇. 27th a. ☾. *Bad*
26	M.	1st Boston Salem Phone, 1876 {10.0 9.1 *storms at*
27	Tu.	S. S. Portland Lost 1898 Tides {10.5 9.3 *sea*
28	W.	Mercury now Evening Star ☿ Gr. El. E. *are quite*
29	Th.	Gen. Arnold Outside Quebec, 1775 ♂♀♆ *likely.*
30	Fr.	St. And. ♂☿☾ ♃ in R.A. Stat. ☾ in Peri. ☾ rides low.

It is the sick oyster which produces the pearl.

Sometimes this month is called "Octembruary"—and it is not entirely a facetious name—for it is a month of startling changes that can leap from Indian summer days into mid winter and combines, indeed, the qualities of four months. The fine old Currier and Ives print—"Home For Thanksgiving"—is a snow scene crisp and blue and white—the old homestead, the sleigh and frosty horse bringing back the son and daughter-in-law and the petticoated youngster.

But November at its best on the farm is made up of those days when the frost is not yet in the ground and the farmer may still be at constructive ground work. Certainly not too late for "stone" work—building of walls or the removing of them—and an ideal time for the use of bulldozers in removing walls and brush around the orchards. Get out what manure you can.

Though spring is gencrally considered the best time for transplanting of trees and shrubs, it may well be done now if the condition of the ground is suitable.

Begin to get ready for the winter's lumbering, if you plan to do any. Look to your barns and henhouse that all is ship-shape and weather-tight. There will always be something left undone in the orchard—apple drops to pick up and stray boxes and maybe a ladder or two that have been overlooked. Sharpen up the axes and saws and get ready for the woodlot.

Farmer's Calendar.

ASTRONOMICAL CALCULATIONS.

☉'s Declination.	Days.	°	′	Days.	°	′	Days.	°	′	Days.	°	′	Days.	°	′
	1	21s.	46	7	22	35	13	23	08	19	23	25	25	23	25
	2	21	55	8	22	41	14	23	12	20	23	26	26	23	23
	3	22	04	9	22	48	15	23	15	21	23	27	27	23	21
	4	22	12	10	22	53	16	23	18	22	23	27	28	23	18
	5	22	20	11	22	59	17	23	21	23	23	27	29	23	15
	6	22	28	12	23	04	18	23	23	24	23	26	30	23	12

☽ First Quarter, 5th day, 11 h. 20 m., morning, E.

○ Full Moon, 13th day, 4 h. 30 m., morning, W.

☾ Last Quarter, 21st day, 9 h. 37 m., morning, W.

● New Moon, 28th day, 6 h. 43 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGES 103 THROUGH 109

Day of Year	Day of Month	Day of the Week	☉ Rises. h.	m.	Key	☉ Sets. h.	m.	Key	Length of Days. h.	m.	Sun Fast. m.	Full Sea. Boston. Morn h.	Even h.	☽ Sets. h.	m.	Key	☽ Souths. h.	m.	☽'s Place	Moon's Age
335	1	Sa.	6	53	N	4	14	D	9	21	27	0¼	0½	6PM	51	C	2PM	22	CAP	3
336	2	S.	6	54	N	4	13	D	9	19	26	1¼	1½	8	11	D	3	23	AQR	4
337	3	M.	6	55	N	4	13	D	9	18	26	2	2¼	9	31	E	4	19	AQR	5
338	4	Tu.	6	56	N	4	13	D	9	17	26	3	3¼	10	46	G	5	10	PSC	6
339	5	W.	6	57	N	4	13	D	9	16	25	4	4¼	11PM	57	H	5	57	PSC	7
340	6	Th.	6	58	N	4	12	D	9	14	25	5	5½	—		—	6	42	ARI	8
341	7	Fr.	6	59	o	4	12	C	9	13	24	6	6½	1AM	06	J	7	26	ARI	9
342	8	Sa.	7	00	o	4	12	C	9	12	24	7	7½	2	14	K	8	10	ARI	10
343	9	S.	7	00	o	4	12	C	9	12	24	8	8½	3	22	M	8	56	TAU	11
344	10	M.	7	01	o	4	12	C	9	11	23	8¾	9¼	4	30	N	9	44	TAU	12
345	11	Tu.	7	02	o	4	12	C	9	10	23	9½	10	5	37	O	10	34	G'M	13
346	12	W.	7	03	o	4	12	C	9	09	22	10¼	10¾	6AM	40	P	11PM	26	G'M	14
347	13	Th.	7	04	o	4	13	C	9	09	22	11	11½	rises		—	—		—	—
348	14	Fr.	7	05	o	4	13	C	9	08	21	11½	—	5PM	01	B	12AM	18	CNC	15
349	15	Sa.	7	05	o	4	13	C	9	08	21	0¼	0¼	6	02	B	1	09	CNC	16
350	16	S.	7	06	o	4	13	C	9	07	20	0¾	1	7	05	D	1	58	CNC	17
351	17	M.	7	07	o	4	13	C	9	06	20	1½	1½	8	09	E	2	44	LEO	18
352	18	Tu.	7	07	o	4	14	C	9	07	19	2¼	2¼	9	12	F	3	28	LEO	19
353	19	W.	7	08	o	4	14	C	9	06	19	3	3	10	15	H	4	10	VIR	20
354	20	Th.	7	09	o	4	15	C	9	06	18	3¾	3¾	11PM	19	I	4	51	VIR	21
355	21	Fr.	7	09	o	4	15	C	9	06	18	4½	4¾	—		—	5	32	VIR	22
356	22	Sa.	7	10	o	4	16	C	9	06	17	5¼	5¾	12AM	24	J	6	15	LIB	23
357	23	S.	7	10	o	4	16	C	9	06	17	6	6½	1	34	L	7	00	LIB	24
358	24	M.	7	11	o	4	17	C	9	06	16	7	7½	2	46	M	7	50	SCO	25
359	25	Tu.	7	11	o	4	17	C	9	06	16	8	8½	4	03	N	8	45	SCO	27
360	26	W.	7	11	o	4	18	C	9	07	15	8¾	9¼	5	22	P	9	47	SGR	28
361	27	Th.	7	12	o	4	18	C	9	06	15	9¾	10¼	6AM	38	P	10AM	53	SGR	29
362	28	Fr.	7	12	o	4	19	C	9	07	14	10½	11¼	sets		—	12PM	00	CAP	0
363	29	Sa.	7	12	o	4	20	C	9	08	14	11½	—	5PM	45	C	1	05	CAP	1
364	30	S.	7	13	o	4	21	C	9	08	13	0	0¼	7	08	D	2	06	AQR	2
365	31	M.	7	13	o	4	22	C	9	09	13	1	1¼	8PM	27	E	3PM	01	AQR	3

DECEMBER hath 31 days. [1951

The wind's
Northeast,
Sharp-toothed
—A beast!

On wind
Come near,
And starved,
—And here

May this,
In lack
Like his,
Bite back!

May this
Lean verse
Be sharp,
—A curse

To bark
And whine
For bones
—And mine!

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	Farmer's Calendar.
1	Sa.	Snowed in Florida, 1876 Tides 9.6 11.3	Three
2	C	Advent ☽. Atomic Age Began, 1942 9.5 11.0	nice
3	M.	76 Inch Otter Trapped Portage, Me., 1949 9.4 10.6	days.
4	Tu.	Henry Ford Peace Party, 1915 Tides 9.3 10.1	
5	W.	Bible Trans. to English, 1611 Tides 9.2 9.6	Pa's
6	Th.	St. Nicholas ☿ in Peri. Tides 9.2 9.2	feel
7	Fr.	Pearl Harbor ☌☽☾ ☿ in R.A. St. 9.3 8.9	in
8	Sa.	Immac. Conception ☽ In ♂ Aph. 9.4 8.7	the
9	C	2d S. in A. Tides 9.6 8.6	oven
10	M.	Phillipines & Porto Rico Ceded to U.S., 1898 8 8.5	he'll
11	Tu.	Rains Save Spain, 1949 ☿ in ♐ 9.9 8.5	now
12	W.	Double North-Easter, 1944 Tides 10.0 8.4	be
13	Th.	St. Lucy. ☾ runs high Tides 10.0 8.4	sh'ovin'.
14	Fr.	Geo. Washington Died, 1799 Tides 10.0 —	Sure
15	Sa.	☾ in Apo. ☌☉☾ ☿ in. Peri. Tides 8.4 9.9	to
16	C	3d S. in A. ☌☿☉ inf. 8.4 9.7	snow
17	M.	Chinese Exclusion Act Repealed, 1943 Tides 8.4 9.5	now
18	Tu.	Year's Shortest Days, 16–26th. Tides 8.4 9.3	you
19	W.	☌♂♄ Ember Day Tides 8.4 9.0	know.
20	Th.	[22nd ☌♄☾ ☌♂☾] 8.5 8.8	Here's
21	Fr.	Plymouth Rock Discovered 1620 Ember	a tip
22	Sa.	WINTER BEGINS 11:01 a.m. ☉ en. ♑ Days 8.9 8.5	
23	C	4th S in A. ☌♆☾ 9.3 8.5	alright
24	M.	Chanukah Tides 9.7 8.6	all this
25	Tu.	Christmas ☌♀☾ ♀ Gr. Hel. Lat. N.	winter
26	W.	St. Stephen. [27th ☌☊☉ ♀ Gr. Hel. Lat. N.]	
27	Th.	St. John. ☾ rides low ☌☿☾ ♀ Stat. in RA.	the
28	Fr.	Childermas. ☾ in Peri.	ground will
29	Sa.	Thos. Beckett Murdered, 1170 Tides 11.6 —	stay
30	C	1st S.a.Ch. Tides 9.7 11.5	white.
31	M.	Ship Resolute Given to England by U.S., 1856 (30th) 9.8 11.2	

Christmas can, of course, be as happy in a hotel room, city mansion, or tenement, on sea or land anywhere, as here with us in these frozen hills. But we who have always known country Christmases couldn't find it so. Just take the matter of the Christmas tree. Christmas wouldn't be the same if we had to walk a city pavement and *buy* a tree at the corner store. To us, getting our own tree on our land is a mighty pleasant business. In truth it's a business that usually starts with us sometime in the summer when we spot our tree "for next Christmas," while we are out picking blueberries.

And as for Christmas wreaths. We make them here in the house and put them on the same frames year after year. What more Christmasy smell (unless it be plum pudding) than in the making of those wreaths — when the whole house is redolent with the clean tang of spruce and balsam? And it almost seems as if the ground pine and the red berries gave forth their own faint earthy aromas, too.

One of my neighbors leaves her Christmas wreath on the door till almost town meeting. She says it makes Christmas last longer. All of us would be sorry if she took it down a mite sooner than that—for we too feel that it keeps Christmas in our hearts all winter.

Merry Christmas, good friends all. Do your chores and have a Happy New Year.

OUTDOOR PLANTING TABLE

Find the latitude of your town or city. Interpolate between columns below to find your planting date. For example, if you live in Grove City, Pa. (Lat. 41°09'35") this would mean the latitude was about halfway between Boston-Phila. So your planting times would also be halfway between. N.B. Plant one week later for every 500 ft. elevation above sea level.

The "Moon Most Favorable" columns give the superstitious times when the phase of moon is "Right" for the crop indicated.

	42°21'44" Boston Latitude		39°56'58" Phila. Latitude		33°45'10" Atlanta Latitude	
CROP	Plant Anytime Between Dates Below	Moon Most Favorable Between	Plant Anytime Between Dates Below	Moon Most Favorable Between	Plant Anytime Between Dates Below	Moon Most Favorable Between
Barley	May 15-Jun 21	May 15-20	Mar 15-Apr 7	Mar 7-22	Feb 15-Mar 7	Feb 15-20
Beans (Early)	May 7-Jun 21	May 15-20	Apr 15-30	Apr 15-20	Mar 15-Apr 7	Mar 15-21
(Late)	Jun 15-Jul 15	Jun 15-18	Jun 1-21	Jun 12-18	Aug 7-30	Aug 10-16
Beets (Early)	May 1-15	None	Mar 15-Apr 30	Mar 23-29	Feb 7-28	Feb 21-28
(Late)	Jul 15-Aug 15	Jul 18-24	Jul 15-30	Jul 18-24	Aug 7-30	Aug 17-23
Broccoli (E)	May 15-30	None	Mar 7-30	Mar 8-14	Feb 15-Mar 15	
(Late)	Jun 15-Jul 7	None	Aug 1-20	Aug 2-9	Sept 7-30	Sept 1-7
Brussels Spr.	May 15-30	None	Mar 7-Apr 15	Mar 8-14	Feb 11-Mar 20	Feb 7-12
Cabbage (E)	May 15-30	None	Mar 7-Apr 15	Mar 8-14	Feb 7-Mar 20	Feb 7-12
(L)	Jun 7-Aug 7	Jun 7-11	Jun 1-Jul 7	Jun 4-10	Jul 15-30	None
Carrots (E)	May 15-30	May 21-26	Mar 7-31	Mar 23-29	Feb 15-Mar 7	Feb 21-27
(Late)	Jun 15-Jul 21	Jun 19-25	Apr 7-May 30	Apr 21-27	Aug 1-Sept 7	Aug 17-24
Cauliflower (E)	May 15-30	None	Mar 15-Apr 7	Apr 6-7	Feb 15-Mar 7	
(Late)	June 15-Jul 21	Jul 4-10	Jun 1-Jul 7	Jun 4-11	Aug 7-30	Aug 11-16
Celery (Early)	May 15-Jun 30	Jun 4-11	May 7-30	May 7-13	Apr 15-30	None
(Late)	Jul 15-Aug 15	Aug 2-9	Jun 15-Jul 7	Jul 4-7		
Corn, Sweet (E)	May 15-Jun 15	May 15-20	Mar 15-30	Mar 15	Feb 15-28	Feb 15-20
(Late)	Jun 15-30	Jun 15-18	May 7-Jun 21	May 14-20	Aug 7-30	Aug 17-23
Cucumber	May 7-Jun 20	May 7-13	Apr 7-May 15	Apr 7-13	Mar 7-Apr 15	Mar 7-14
Egg Plant	Jun 1-30	Jun 12-18	Apr 7-May 15	Apr 14-20	Mar 7-Apr 15	Mar 7-14
Endive (Early)	May 15-30	None	Apr 7-May 15	Apr 7-13	Feb 15-Mar 20	
(Late)	Jun 7-30	Jun 7-10	Jul 15-Aug 15	Aug 2-9	Aug 15-Sept 7	Aug 2-9
Kale (Early)	May 15-30	None	Mar 15-Apr 7	Mar 15	Feb 15-Mar 7	
(Late)	Jul 1-Aug 7	Jul 4-10	Jul 15-31	None	Sept 7-30	Sept 1-7
Leek	May 15-30	None	Mar 7-Apr 7	Mar 7-15	Feb 15-Apr 15	
Lettuce	May 15-Jun 30	Jun 4-11	Mar 1-31	Mar 7-14	Feb 15-Mar 7	
Melon (Musk)	May 15-Jun 30	May 15-20	Apr 15-May 7	Apr 15-20	Mar 15-Apr 7	Mar 15-20
Onion	May 15-Jun 7	May 21-26	Mar 1-31	Mar 23-29	Feb 1-28	Feb 21-27
Parsley	May 15-30	None	Mar 1-31	Mar 7-14	Feb 20-Mar 15	Mar 7-15
Parsnip	Apr 1-30	Apr 21-27	Mar 7-31	Mar 23-29	Jan 15-Feb 7	Jan 22-30
Peas (Early)	Apr 15-May 7	Apr 14-20	Mar 7-31	Mar 15-21	Jan 15-Feb 7	Jan 15-20
(Late)	Aug 15-30	Aug 15-16	Jul 7-31	Jul 11-17	Aug 15-30	Aug 10-15
Pepper	May 15-Jun 30	May 15-20	May 1-31	May 14-20	Apr 1-20	Apr 14-20
Pumpkin	May 15-30	May 15-20	Apr 23-May 15	May 14-15	Apr 7-20	Apr 14-20
Potatoes	May 15-30	May 21-26	Apr 7-May 30	Apr 21-27	Jan 1-Mar 7	Jan 22-30
Radish (Early)	Apr 15-30	Apr 21-26	Mar 7-31	Mar 23-29	Jan 21-Mar 1	Jan 22-30
(Late)	Aug 15-30	Aug 17-24	Aug 7-31	Aug 17-24	Sept 1-21	Sept 15-21
Spinach (E)	May 15-30	None	Mar 15-Apr 20	Apr 6-13	Feb 7-Mar 15	
(Late)	Jul 15-Sept 7	Aug 2-9	Aug 1-Sept 15	Aug 2-9	Sept 1-21	None
Swiss Chard	May 1-30	May 5-13	Mar 15-Apr 15	Apr 6-13	Feb 7-Mar 15	
Summer Squ	May 15-Jun 15	May 15-20	Apr 15-May 15	Apr 15-20	Mar 15-Apr 15	Mar 15-20
Tomato	May 15-30	May 15-20	Apr 7-30	Apr 14-20	Mar 7-20	Mar 15-20
Turnip (Early)	Apr 7-30	Apr 21-27	Apr 7-30	Apr 21-27	Jan 20-Feb 15	Jan 22-29
(Late)	Jul 1-Aug 15	Jul 18-24	Aug 1-20	Aug 17-20	Sept 1-Oct 15	Sept 15-20
Wheat (Fall)	Oct 7-30.	Oct 7-13	Sept 15-Oct 20	Oct 1-20	Oct 15-Dec 7	Nov 1-12
(Spring)	Apr 7-30	Apr 7-20				

"ABSORBINE kept my horse at work"

SAYS MARTIN PAUL
of Pewee Valley, Kentucky

"I thought my horse would be laid up for a week with shoulder gall 'til I tried Absorbine. It helped give relief in a few hours. I'd recommend Absorbine to any farmer like myself."

AND NORWOOD ANDREWS of Moorestown, N. J., says:

"I can't afford to have my horse laid up.

"Whenever I see any signs of lameness on my horses, I use Absorbine for relief. I'm sure it saved me many working hours in the past ten years."

Yes, there's nothing like Absorbine for lameness due to shoulder gall, strains, puffs, bruises. Absorbine is not a "cure-all," but a time-proved help in relieving fresh bog spavin, windgall, collar gall, and congestive troubles.

A stand-by for over 50 years, it's used by many leading veterinarians. Will not blister or remove hair. Only $2.50 a long-lasting bottle at all druggists.

W. F. Young, Inc., Springfield, Mass.

FOR FORTY DAYS AND NIGHTS . . .

Psychologists agree that in thoughts, as well as actions, we earth people of 1951 are motivated to a large degree (perhaps 70%) by the past. The palsy, for example, is seen as the continuous exercise we once undertook as fishes to keep ourselves afloat. In thought, not the least tenacious and frequent outcropping of legend is seen in our arbitrary acceptance of "forty days" for Lent, the rainy or dry period after St. Swithin's Day, et al.

Upon occasion, the Aztecs — as well as most ancient and honorable civilizations — divided the year into forty day cycles. Hesiod, in the 8th century B.C., proclaimed the disappearance of the Pleiades for forty days and nights as the law of all mankind. There are too many Biblical and other historical references to this forty day period for us, just because we can not explain these, to dismiss them as old wives tales.

In our estimate an observer at about 42 degrees North or South Latitude might easily conclude the forty day cycle as one which makes excellent weather forecasting sense. It has, apparently, a definite relation to the obliquity of the sun's rays upon the earth and to the temperatures of the earth's atmosphere — the chief cause of weather.

At the Equator, stable temperatures produce even weather. The winds come steadily from given directions. The rainy season is predicted successfully almost to the minute.

We, at forty-two degrees North could forecast our weather accurately, too, could we determine our normal atmospheric temperatures for any given obliquity of the sun's rays. The accumulated excess or deficiency heat and cold figures from the normal would go far to determine what might be expected in the way of a balancing weather operation by Mother Nature.

The principle is simple and well understood. Precipitation, storms, weather extremes, are Nature's way of maintaining temperature balances. As the Sun leaves us in the Fall, the cooling of our atmosphere brings on bad weather. As it returns to us in the Spring, the warming process does likewise. The apparent "Lag" — or period of adjustment, which is allowed to our atmosphere for catching up with the Sun seems to be approximately forty days.

Our observer, then on the fortieth parallel might arrive at certain definite weather conclusions:

1. That severe "surprise" weather extremes, such as hurricanes and blizzards, are to be looked for only in two of nine seasons.
2. That the forty day legend at Groundhog Day (Feb. 2), at St. Swithin's Day (July 15), at Christmas, and at St. Paul's Day (Jan. 25th) are based on the fact that seasons actually do begin very close to those particular days.
3. That the ancients — as well as ourselves — have some basis in fact for our belief in forty day cycles.
4. That there is some reason to believe that weather can be foretold in the equation between atmospheric temperatures and the obliquity of the sun's rays.
5. That actual weather records along the fortieth parallel actually prove nine seasons a far more accurate measure of weather than do the present zodiacal four seasons which in most places are no measure at all.

A tabulation which an observer might make of the nine seasons along the fortieth parallel — and certain weather extremes which have occurred within these seasons — follows. North or South of the fortieth parallel one would expect these seasons to be fewer in number and of different lengths.

THE NINE SEASONS

1. SPRING. May 1 to June 10.
2. EARLY SUMMER. June 11 to July 15.
3. SUMMER. July 15 to September 1. (Heat and storm records occasional.)
4. EARLY FALL. September 2 to October 15. Sept. 8 to 16, 1944. Great Atlantic Hurricane. Sept. 17 to 21, 1938. New England Hurricane. 1815. New England Hurricane.
5. FALL. October 16 to November 20.
6. EARLY WINTER. November 21 to December 25.
7. WINTER. December 26 to February 1. (Cold and snow records occasional.)

Continued on page 39

ECLIPSE TABLE (Continued from page 5)

	Eclipse begins	Middle of eclipse	Magnitude	Eclipse ends
		Eastern Standard Time		
Ann Arbor, Mich.	Pre-dawn	Pre-dawn	(0.79)*	7.06 A.M.
Atlanta, Ga.	"	"	(0.75)*	7.03 A.M.
Cambridge, Mass.	"	6.02 A.M.	0.83	7.12 A.M.
Charleston, W.Va.	"	6.00 A.M.	0.92	7.05 A.M.
Cleveland, Ohio	"	6.01 A.M.	0.90	7.06 A.M.
Columbia, S.C.	"	Pre-dawn	(0.91)*	7.04 A.M.
New York, N.Y.	"	6.01 A.M.	0.87	7.10 A.M.
Orono, Me.	5.01 A.M.	6.04 A.M.	0.81	7.14 A.M.
Philadelphia, Pa.	Pre-dawn	6.01 A.M.	0.89	7.09 A.M.
Raleigh, N.C.	"	5.58 A.M.	0.95	7.06 A.M.
Richmond, Va.	"	5.59 A.M.	0.96	7.07 A.M.
Tallahassee, Fla.	"	Pre-dawn	(0.91)*	7.03 A.M.
Washington, D.C.	"	6.00 A.M.	0.92	7.07 A.M.
		Central Standard Time		
Evanston, Ill.	Pre-dawn	Pre-dawn	(0.71)*	6.05 A.M.
Greencastle, Ind.	"	"	(0.74)*	6.04 A.M.
Iowa City, Iowa	"	"	(0.49)*	6.04 A.M.
Jackson, Miss.	"	"	(0.39)*	6.02 A.M.
Kansas City, Mo.	"	"	(0.26)*	6.04 A.M.
Little Rock, Ark.	"	"	(0.32)*	6.02 A.M.
Louisville, Ky.	"	"	(0.79)*	6.04 A.M.
Madison, Wis.	"	"	(0.62)*	6.05 A.M.
Minneapolis, Minn.	"	"	(0.43)*	6.04 A.M.
Nashville, Tenn.	"	"	(0.68)*	6.03 A.M.
New Orleans, La.	"	"	(0.34)*	6.00 A.M.
Tuscaloosa, Ala.	"	"	(0.57)*	6.02 A.M.

* Magnitude at sunrise; mid-eclipse before sunrise.

OCCULTATIONS, 1951

There will be three occultations visible to naked eye observers during 1951, although only one of them, that of Regulus (P Leonis) on June 11, occurs under truly favorable circumstances for a selected group of observers. The other two will test the observer's power in one or another respect.

The occultation of Regulus on June 11 will begin at approximately 8.20 P.M. E.S.T. for observers in the Eastern Standard Time belt; the exact time will depend upon the observer's geographical location. Observers along the Atlantic coast will find observation aided by a darker post-sunset sky than observers further west.

A second occultation of Regulus, this time by the bright limb of the moon and hence less easy to observe with the naked eye, will be visible to most observers in the Central Standard, Mountain Standard and Pacific Standard Time zones on October 25. The occultation will begin shortly after 5.30 P.M. C.S.T., 4.30 P.M. M.S.T. and 3.30 P.M. P.S.T., the exact moment depending upon the observer's location.

An occultation of the Planet Venus will test naked eye observers west of the Eastern Standard Time belt. For them this occultation on February 7 will begin before the sun sets and while Venus and the Moon are not far distant from the sun in the sky. For such observers the occultation will begin some time after 3.45 P.M. C.S.T., 2.45 P.M. M.S.T. and 1.45 P.M. P.S.T. Observers in the northeastern part of the United States will have better luck. For them the occultation begins at approximately 6 P.M. E.S.T., just a few moments before the planet sets and approximately one hour after sunset.

EARTH IN PERIHELION AND APHELION, 1951

The Earth will be in Perihelion on January 1, 11 P.M., distant from the Sun 91,345,000 miles. The Earth will be in Aphelion on July 4, 4 P.M., distant from the Sun 94,456,000 miles.

THE NINE SEASONS (Continued from page 38)

8. LATE WINTER. February 2 to March 15. Feb. 9, 1934. Boston low record — 18 deg. (Also Feb. 15, 1817). 1933. U.S. Record low at Yellowstone Park, Wyoming, of 66 below. Feb. 16, 1933. Turners Falls, Massachusetts record low of 30 below. Feb. 24, 1723. Highest tide Boston ever had. Mar. 3, 1907. Nantucket icebound. Mar. 11, 1888. Famous blizzard began with 20.9 inches of snow.
9. FALSE SPRING. March 16 to April 30.

MOTOR VEHICLE LAWS—1950

Courtesy: American Automobile Association

State	Op. Speed limit (R—reasonable)	Rd. Date new license plates can be used	Driving license* Minimum age**	Gasoline tax	Percent sales tax	Period of stay[1]	Safety responsibility law	Certificate of title required
Alabama	R	Oct. 1	16	$.06	½[2]	Reciprocal	yes	no
Arizona	60	Dec. 15	18	.05	2	[3]	yes	yes
Arkansas	55	Jan. 1	18	.065	2	90 days	no	yes
California	55	Jan. 1	16	.045	3	[3]	yes	yes
Colorado	60	On issue	16	.06	2	Reciprocal	yes	yes
Connecticut	45	Feb. 15	16	.04	2	Reciprocal	yes	no
Delaware	55	[4]	16	.04	...	Reciprocal	yes	yes
D. C.	25	Mar. 1	16	.04	...	Reciprocal	yes	yes
Florida	60	Dec. 1	16	.07	...	Reciprocal	yes	yes
Georgia	55	Jan. 1	16	.07	...	30 days	yes	no
Idaho	R	Jan. 1	16	.06	...	Reciprocal	yes	yes
Illinois	R	Dec. 1	15	.03	2	Reciprocal	yes	yes
Indiana	R	Jan. 3	16	.04	...	60 days	yes	yes
Iowa	R	Dec. 1	16	.04	2	Reciprocal	yes	no
Kansas	R	Jan. 1	16	.05	2	Reciprocal	yes	yes
Kentucky	45	Dec. 29	16	.07	...	Reciprocal	yes	[6]
Louisiana	60	Jan. 1	15	.09	2	Reciprocal	no	no
Maine	45	Dec. 25	15	.06	...	Reciprocal	yes	no
Maryland	50	Mar. 15	16	.05	2	Reciprocal	yes	yes
Massachusetts	R	Jan. 1	16	.03		Reciprocal	[9]	no
Michigan	R	Dec. 1	16	.03	3	90 days	yes	yes
Minnesota	60	Nov. 1	15	.05	...	Reciprocal	yes	no
Mississippi	55	Nov. 1	17	.06	1	[3]	no	no
Missouri	R	On issue	16	.02	2	Reciprocal	yes	yes
Montana	50	Jan. 1	15	.06	...	30 days	yes	yes
Nebraska	60	Jan. 1	15½	.06	...	[3]	yes	yes
Nevada	R	Dec. 15	16	.055	...	No limit	no	yes
New Hampshire	50	Mar. 1	16	.04	...	Reciprocal	yes	no
New Jersey	40	Mar. 1	17	.03	...	Reciprocal	yes	yes
New Mexico	R	On issue	14	.07	1	90 days	yes	yes
New York	50	Jan. 1	18	.04	...	Reciprocal	yes	no
North Carolina	55	Dec. 1	16	.07	3[11]	Reciprocal	yes	yes
North Dakota	50	On issue	16	.06	2	Reciprocal	yes	yes
Ohio	50	Mar. 1	16	.04	3	Reciprocal	yes	yes
Oklahoma	R	Dec. 11	16	.065	2	60 days	yes	yes
Oregon	55	Dec. 15	16	.06	...	Reciprocal	yes	yes
Pennsylvania	50	Mar. 15	18	.05	...	Reciprocal	yes	yes
Rhode Island	35	Mar. 1	16	.04	1	Reciprocal	yes	no
South Carolina	55	Sept. 1	14	.06	...	90 days	no	no
South Dakota	60	Jan. 1	15	.04	2[12]	90 days	yes	yes
Tennessee	R	Mar. 1	16	.07	2	30 days	yes	[6]
Texas	60	Feb. 1	16	.04	1	Reciprocal	no	yes[5]
Utah	60	Dec. 15	16	.04	2	Reciprocal	yes	yes
Vermont	50	Mar. 1	16	.05	...	Reciprocal	yes	no
Virginia	50	Mar. 15	15	.06	...	6 mos.	yes	yes
Washington	50	Nov. 15	16	.065	3	Reciprocal	yes	yes
West Virginia	50	June 20	16	.05	...	90 days	yes	yes
Wisconsin	R	On issue	16	.04	...	Reciprocal	yes	yes
Wyoming	60	Dec. 1	15	.04	2	90 days	yes	yes

[1]Applies to nonresidents. The term "reciprocal" means that the state will extend to a nonresident the identical privileges granted by his home state to nonresident motorists. In some states visitors must register within a specified time. In most states persons who intend to reside permanently must buy new plates and secure new driving license at once, or within a limited period. Acquisition of employment or placing children in public school is often considered intention to reside permanently.

[2]None on used cars.

[3]Until expiration of home registration.

[4]Three months before current registration expires.

[5]Use tax on new cars, first registration of used cars.

[6]Bill of sale must be filed.

[8]Permit showing compliance with state compulsory liability insurance law must be obtained after 30 days.

[9]State has compulsory insurance.

[11]$15 maximum.

[12]Registry tax on first registration in state.

*South Dakota does not require. All other states do.

**Only states not requiring examinations for drivers licenses are Idaho, Missouri, and N. Dakato.

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DIGEST OF LATEST AVAILABLE FISH AND GAME LAWS

Open seasons include both dates, "Rabbit" includes "hare"; "quail" includes "partridge" in South; "grouse" includes Canada grouse, sharptailed, ruffed (known as partridge in North and pheasant in South) and other members of family except prairie chickens ptarmigan and sage hen. As many states do not complete laws for 1951 until after our press date, VERIFY in every case for changes even though the changes from year to year are not as a rule sensational. Limits are daily except those in italics which are seasonal.

♂ males only. † local exceptions. ‡ non-resident exceptions. # Pounds.

State and Species	Seasons	Limits, Season
Alabama		
Deer	Nov. 25-Jan. 1 † ♂	*3*
Rabbit	Oct. 16-Feb. 20	*6*
Squirrel	N-Oct. 16-Jan. 1 S-Oct. 30-Jan. 15	*6*
Muskrat (fur), Otter	Nov. 20-Jan. 31	
Quail	Nov. 25-Feb. 20	*8*
Turkey	Nov. 25-Jan. 1 ♂ †	*5*
Bass	No closed season	10
White. bass	No closed season	15
Bream	No closed season	30
Crappie, wh. pch.	No closed season	20
Jack Salmon	No closed season	10
W.-eye pike	No closed season	15
Alaska		
Deer	Sept. 10-Nov. 10♂†	*2‡*
Moose	Sept. 1-Oct. 20 ♂†	*1*
Bear, br. & grz.	Sept. 1-June 20†	*2*
Bear, black	No closed season	*3*
Bear, other	Sept. 1-June 30	*2*
Caribou	Aug.20-Sept. 20†	*1‡*
Mountain goat	Aug. 20-Nov. 15	
Mountain sheep	No open season	*1‡*
Rabbit	No closed season†	
Grouse & Ptar'g'n	Aug. 20-Feb. 28 † agg.	10
Trout & grayling	†	20
Arizona		
Elk	Nov. 17-30	1
Deer	By permit	*1*
Rabbit	Dec. 15-Jan. 31	*6*
Javelina	Mar. 1-31	
Turkey	Oct. 9-13	1
Trout	May 24-Sept. 30†	15
Bass	No closed season	10
Bluegill	No closed season	20
Chan. Catfish	No closed season	10
Arkansas		
Deer	Nov. 8-12 † ♂ Dec. 13-18 † ♂	*1*
Squirrel	Oct. 1-Dec. 31	8
Quail	Dec. 1-Jan. 15	
Turkey	Closed	
Bass	May 16-Mar. 16	8
Trout	May 16-Oct. 31	6
Pike, Jack salmon	No closed season	6
Bream, perch	No closed season	20
California		
Deer	Local seasons	*2*
Elk	Dec. 2-11	1
Antelope	Aug. 27-Sept. 5 ♂	*1*
Bear	Oct. 1-Dec. 31 †	*2*
Rabbit	Nov. 18-Dec. 31	15
Quail	Nov. 18-Dec. 31	16
Pheasant	Nov. 18-27 ♂	10
Trout (exc. gldn) (Sp. wntr seas.)	Apr. 29-Oct. 31	15
Trout, golden	July 1-Sept. 30†	15
Salmon	Apr. 29-Oct. 31	2#
Bass, black	May 20-Oct. 31 †	5
Bass, striped	No closed season	5
Colorado		
Deer	Opens Oct. 15	1
Elk	Opens Oct. 15	1
Bear	Opens Oct. 15	1
Quail	Not set	8

State and Species	Seasons	Limits, Season
Colorado (cont.)		
Pheasant	Not set	3
Rabbit	Oct. 15-Dec. 31	5
All fish (Lakes under 7000 ft. open all year)	May 25-Oct. 31	20
Connecticut		
Rabbit	Nov. 1-Dec. 31	*30*
Squirrel	Oct. 15-Nov. 26	*30*
Quail	Dates not set	*18*
Pheasant ♂	Oct. 15-Nov. 26	*15*
Grouse	Oct. 15-Nov. 26	*15*
Trout	Apr. 16-July 15	10
Lake trout	Apr. 16-Aug. 31	3
Pickerel	Apr. 16-Feb. 9	6
Wall-eye	Apr. 16-Feb. 9	6
Bass, black	Apr. 16-Oct. 31	10
Bass, striped	Apr. 16-Feb. 9	10
Perch	Apr. 16-Feb. 9	15
Salmon, sockeye	Apr. 16-Aug. 31	5
Shad	Apr. 16-July 15	
Alewives	Mar. 1-May 31	
Delaware		
Rabbit	Nov. 15-Dec. 31	6
Squirrel	Sept. 15-Nov. 1	6
Quail	Nov. 15-Dec. 31	12
Pheasant	Nov. 15-Dec. 31 ♂	*6*
Bass	June 25-Feb. 1	6
Pike, pkl., w. eyed pike	June 25-Mar. 1	6
Trout	Apr. 16-Aug. 15	6
Florida		
Deer, male	Nov. 22-Jan. 5 † ♂	*2*
Squirrel	Nov. 22-Feb. 1†	12
Quail	Nov. 22-Feb. 1 †	10
Turkey	Nov. 22-Feb. 1 †	*4*
Bass, black	No closed season	8
Bream, perch	No closed season	20
Tarpon	No closed season	
Georgia		
Deer	Nov. 10-25 ♂	*1*
Bear	Nov. 20-Feb. 15 †	
Squirrel	Nov. 1-Jan. 5	10
Quail	Nov. 25-Feb. 25	15
Grouse	Nov. 20-Jan. 15	3
Turkey	Nov. 15-Feb. 15 †	*2*
Rabbit	Nov. 1-Feb. 25	8
Opossum	Oct. 1-Feb. 15	
Bass, striped	No closed season†	10
Bass, black	No closed season†	10
Bass, rock	No closed season†	10
Bass, Ky. or r.-eye	No closed season†	10
Bream, perch	No closed season†	25
Crappie	No closed season†	15
Pickerel	No closed season†	15
Wall-eyed pike	No closed season†	3
Muskellunge	No closed season†	2
Trout	Apr. 1-Nov. 15†	10
Idaho		
Moose	By permit	1
Deer, elk	Oct. 5-31	*1*
Antelope	By permit	
Quail	Oct. 29-Nov. 27	5
Pheasant	Oct. 29-Nov. 27	2
Hun. partridge	Oct. 29-Nov. 27	5
Sage hen	Sept. 17-18	2

Idaho (cont.)		
Grouse, other	Oct. 7-9	2
Pheasant	Oct. 29-Nov. 27	2
Rabbit	Oct. 1- Jan. 31	4
Trout	June 4-Oct. 31	20
Black Bass	No closed season	10
Sturgeon	No closed season	2
Bass (l-mouth)	No closed season	10
Crappie, Perch, Sunfish	No closed season	25 1
Bass (s-mouth)	No open season	
Salmon (steelhd.)	June 4-Oct. 31	2
Illinois		
Rabbit	Nov. 11-Jan. 31	15
Squirrel	July 15-Nov. 15†	5
Quail	Nov. 11-Dec. 11	10
Pheasant	Nov. 11-Nov. 25†	2
Bass, black	May 15-Mar. 31†	10
Bass (rk., wrmth. wh., yel.) crappies, sunf., blue-gills	No closed season	50 (75 in ag-g.)
Buffalo, bullhd., catf., carp, shphd.	No closed season	
Trout	Apr. 1-Sept. 30	8
Perch	No closed season	
Pickerel	May 1-Feb. 28	10 in ag-g.
Wall-eyed pike		
Lake tr., white-fish	No closed season	
Indiana		
Rabbit	Nov. 10-Jan. 10	5
Squirrel	Not set	5
Quail	Nov. 10-Dec. 20	10
Pheasant	Dates not set	
Hun. partridge	Nov. 10-Dec. 20	5
Bluegill, rd.-eared sunf., crappie, rock bass	No closed season	25 in ag-g, 6
Bass, silv. or yel., bl., Ky., wh. or str.	June 16-Apr. 30	in ag-g. 6
Pike-perch	June 16-Apr. 30	, 6
Pike or pickerel	June 16-Apr. 30	
Yellow perch	June 16-Apr. 30	
Trout	May 1-Aug. 31	15
Chan. catfish	No closed season	
Iowa		
Rabbit	Sept. 15-Jan. 31	10
Squirrel	Sept. 15-Nov. 15	6
Pheasant	Nov. 11-30 ♂	2
Quail	Nov. 1-15	8
Hungarian partridge	Date not set	
Trout	May 1-Nov. 30	8
Northern pike	May 15-Nov. 30†	5
Bass	June 1-Nov. 30 †	5
Pike, sand or saug., w.-eyed	May 15-Nov. 30†	5
Bullheads	No closed season	25
Yell, pch. and bass, yellow str., silver	May 15-Nov. 30†	15
Crap., cal. bass	No closed season	15
Catfish	Apr. 15-Nov. 30†	8
Kansas		
Squirrel	June 15-Nov. 30	8
Quail	Opens Nov. 17	3
Pheasant	Nov. 5-7	
Rabbit	No closed season	
Bass	May 26-Apr. 24	10
Kentucky		
Rabbit	Nov. 20-Jan. 10	8
Squirrel	Aug. 20-Nov. 5	6
Quail	Nov. 20-Jan. 10	10
Ruffed Grouse	Dec. 1-Dec. 15	2
Bass, black	No closed season	10
Trout	No closed season	10
W.-eyed pike, sand pike or sauger	No closed season	15 10

Ken, (cont.)		
Striped bass	No closed season	15
Crappie	No closed season	15
Rock bass	No closed season	15
Muskellunge	No closed season	
Louisiana		
Deer	Nov. 15-Jan. 10 †	*2*
Bear	Closed	*5*
Rabbit	Oct. 15-Feb. 15	5
Squirrel	Nov. 15-Jan. 15	10
Quail	Dec. 1-Feb. 20	15
Turkey	Closed	*1*
Bass, black, yel., white	No closed season	15
Crappie	No closed season	25
Sunfish	No closed season	25
		50
Maine		
Deer	Oct. 21-Nov. 30†	*1*
Bear	No closed season	
Rabbit	Oct. 1-Feb. 28†	4
Squirrel	Oct. 1-Oct. 31	4
Pheasant	Oct. 1-Nov. 15	2
Grouse	Oct. 1-Nov. 15	4
Salmon, togue(a)	Ice out-Sept. 30	25
Salmon, togue(b)	Ice out-Sept. 15	25
Salmou, togue(c)	Ice out-Aug. 15	25
Trout(a)	Ice out-Sept. 30	25
Trout(b)	Ice out-Sept. 15	25
Trout (c)	Ice out-Aug. 15	25
Wh. perch(a)	Ice out-Sept. 30	25
Wh. perch(b)	Ice out-Sept. 15	25
Wh. perch(c)	Ice out-Aug. 15	25
Black bass(a)	June 21-Sept. 30	10
Black bass(b)	June 21-Sept. 15	25
Black bass(c)	June 21-Aug. 15	25
Black bass (fly)	June 1-20	3
Pickerel	No closed season	10†
a-Lakes & ponds b-Riv. abv. tidewtr. c-Brooks,streams		
Maryland		
Deer	Dec. 5-10 ♂†	*1*
Squirrel	Sept. 15-Sept. 20	6
Quail	Nov. 15-Dec. 31†	6
Grouse	Nov. 15-Dec. 31†	*6*
Pheasant	Nov. 15-Dec. 31† ♂	*6*
Turkey	Nov. 15-Dec. 30†	*1*
Trout	Apr. 15-July 15	10
Bass-non-tdl.	July 1-Nov. 30	10
Str. (rck.) bass, non-tdl. wtrs.	Mar. 15-Nov. 30	10
Wall-eyed pike	Mar. 15-Nov. 30†	10
Pike, pickerel	July 1-Nov. 30	10
Perch	July 1-Nov. 30	15
Catfish	Feb. 15-Nov. 30†	
Massachusetts		
Deer	Dec. 5-10	*1*
Rabbit, hare	Oct. 20-Feb. 15†	5
Squirrel	Oct. 20-Nov. 20	*15*
Quail	Oct. 20-Nov. 20	20
Grouse	Oct. 20-Nov. 20	2
Pheasant	Oct. 20-Nov. 20 ♂	2
Bass	July 1-Feb. 15	5
Pike	Apr. 15-Feb. 15	5
Muskellunge	Apr. 15-Feb. 15	5
Pickerel	Apr. 15-Feb. 15	10
White perch	Apr. 15-Feb. 15	15
Salmon	Apr. 15-Feb. 15	5
Trout	Apr. 15-July 31†	12
Bluegls., cal. bass, crappie, hrnd. pout, sunfish, yel. pch.	Apr. 15-Feb. 15	20
Michigan		
Deer	Nov. 15-30	*1*
Grouse, prairie chicken	U-Oct. 1-Oct. 20† L-Oct. 15-Oct. 26†	*3* *3*
Pheasant	L-Oct. 15-26	*8*
Woodchuck	L-Oct. 15-Jan. 31†	
Trout	Apr. 29-Sept. 10 †	15†
Bass	June 25-Dec. 31†	5†
No. pike, pk.pch.	No closed season	5
Muskellunge	No closed season	
Lake trout	Nov. 1-Sept. 30	25

Michigan (cont.)		
White bass	No closed season	10
Crappie, rk. bass, yel. pch. bluegills, sunfish	June 25-Mar. 31†	25†
Whitefish	No closed season	7
Minnesota		
Deer (Bow and Arrow)	Oct. 16-Nov. 1†	1
Deer	Nov. 20-Nov. 28†	1
Bear	No closed season	
Squirrel	Oct. 16-Dec. 15	7
Quail	Oct. 23-Nov. 7†	10
Pheasant	Oct. 23-Nov. 7 ♂	3
Rabbit	Oct. 16-Mar. 1	15
Raccoon	Nov. 1-Dec. 1	
W.-eyed pike, saugers, gt. no. pike, pickerel	May 15-Feb. 15†	8
Muskellunge	May 13-Feb. 15†	2
Bass	June 17-Nov. 30†	6
Trout	Apr. 29-Sept. 15†	15
Lake Trout	Dec. 30-Feb. 15† Apr. 29-Sept. 30†	5
Crappies, sunfish wh. & rk. bass	May 13-Feb. 15†	15
Catfish	May 13-Feb. 15†	10
Bullheads	May 13-Feb. 15†	50
Whitefish	May 13-Feb. 15†	
Buffalo	May 13-Feb. 15†	
Mississippi		
Deer	Nov. 20-Dec. 1†	1
	Dec. 20-Jan. 1†	
Bear	No open season	
Rabbit	Not set	5
Squirrel	Oct. 15-Dec. 15	5
Quail	Dec. 10-Jan. 31†	8
Turkey	Nov. 23-27 ♂	1
Bass	No closed season	15
Crappie	No closed season	15
White perch	No closed season	15
Sunfish		25
Missouri		
Deer	Not set (res. only)	1
Archery	Not set (res. only)	1‡
Squirrel, Rabbits	May 30-Oct. 31	6
	Nov. 10-30	
Quail	Nov. 10-Dec. 31	10
Wall-eyed pike	May 30-Nov. 30	4
Bass, black	May 30-Nov. 30	6
Trout	Mar. 1-Nov. 30	6
Bass, wh., yel.	Mar. 15-Nov. 30	9
Bass, warmth., rk.	Mar. 15-Nov. 30	9
Crappie	Mar. 15-Nov. 30	9
Channel cat	Mar. 15-Nov. 30	6
Blue gl., hl. pch.	Mar. 15-Nov. 30	12
Montana		
Deer	Oct. 15-Nov. 15† ♂	1
Bear	Apr. 15-Nov. 15†	1†
Elk	Sept. 15-Dec. 31	
Moose	Local seasons	1†
Goat		
Grouse	Dates not set	
Quail, turkey		
Sage hen		
Hun. partridge		
Pheasant		
All game fish	May 22-Nov. 15	15
Nebraska		
Quail	Nov. 17-28	5
Rabbit	Oct. 29-Jan. 31	10
Squirrel	Oct. 29-Dec. 31	5
Pheasant	Oct. 29-Nov. 18	3
Raccoon	Oct. 1-Mar. 1	
Trout	Apr. 1-Nov. 1	10
Bass, black	No closed season†	10
Crappie, sunf., rock bass	No closed season†	15
Bullheads	No closed season†	15
Catfish	No closed season†	10
Perch	No closed season†	
Pike, w.-eye, saug. no'thn.	No closed season†	5
Nevada		
Antelope	Aug. 25-Sept. 22	1
Deer	Not set	1
Rabbit	Not set	
Quail	Dates not set	
Pheasant	Dates not set	
All game fish	Apr. 15-Oct. 1	25
New Hampshire		
Deer	North—Nov. 1-30	1
	South—Dec. 1-31	
Bear	No closed season	
Rabbit, hare	Oct. 1-Feb. 28	5
Squirrel	Oct. 1-Nov. 1	5
Quail	No open season	
Grouse	Oct. 1-Dec. 1	25
Pheasant	Oct. 15-Nov. 16 ♂†	10
Trout, brook	May 1-Sept. 30	15
Lake Trout	Jan. 1-Sept. 30†	2
Lake Trout (fly)	Sept. 1-30	2
Salmon	Apr. 1-Sept. 30†	2
Trout, golden	Apr. 15-Aug. 31	4
Bass	July 1-Oct. 31†	5#
Muskellunge	May 28-Oct. 31	
Pike-perch	May 28-Oct. 31†	
Pickerel	May 28-Jan. 15†	10#
New Jersey		
Deer	Dec. 12-Dec. 17 ♂†	1
Archery	Dec. 7-11	
Rabbit, squirrel	Nov. 10-Dec. 10	6
Quail	Nov. 10-Dec. 10†	10
Grouse	Nov. 10-Dec. 10	3
Pheasant	Nov. 10-Dec. 10 ♂	30
Trout	Apr. 15-July 15†	10†
	Sept. 1-Sept. 30†	
Pike, pick'l, pike-perch	May 20-Nov. 30† Jan. 3-25	10
Bass, bl., Oswego, white	June 15-Nov. 30†	10
Calico, rock bass, crappie	June 15-Nov. 30	20
Bass, striped	Apr. 1-Nov. 30	
Wh., yel. pch., catf., sunf.	No closed season	
New Mexico		
Deer	Nov. 10-Nov. 21† ♂	1
Elk	Oct. 26-Nov. 2	1
Bear	Sept. 15-Dec. 10†	1†
Antelope	Shooting by permit† ♂	
Turkey	Nov. 10-Nov. 21†	1
Squirrel	Nov. 10-Nov. 21	5
Trout	May 30-Nov. 21	15
Bass, pike pch. Chan. catf.		20
Crappie	Apr. 1-15 & May 30-Nov. 30	20
Sunf., ring pch. and bream	June 1-Nov. 30	
Bullhd., yel. and mud catfish	No closed season	20
New York		
Deer	Oct. 25-Nov. 25† ♂	1
Bear	Oct. 25-Nov. 25†	1
Rabbit	Oct. 21-Jan. 31†	6†
Squirrel	Oct. 21-Nov. 18†	5
Quail	Not set	6†
Grouse	Not set	2
Pheasant ♂	Not set	1
Black bass	July 1-Nov. 30†	6†
Striped bass	No closed season	
Muskellunge	July 1-Dec. 1†	†
Salmon, ldlckd.	Apr. 1-Sept. 10	2
Salmon, chinook	Apr. 1-Sept. 10	3
Pike-perch	May 1-Mar. 1†	10†
Pickerel	May 1-Mar. 1†	10†
Gt. no'n. pike	May 1-Mar. 1†	10†
Trout, brk., br., r'bow	Apr. 8-Sept. 10†	10†
Lake trout	Apr. 1-Sept. 10	3†
Trout	Apr. 8-Sept. 10	10†
Bullheads	No closed season†	†
Whitefish	Apr. 1-Sept. 10†	†
Perch, white	No closed season	25†
Perch, yellow	No closed season†	
Long Island		
Rabbit, squirrel	Nov. 1-Dec. 31	6
Grouse	Not set	2
Pheasant	Nov. 1-Dec. 31	30
North Carolina		
Deer	Oct. 15-Jan. 2	1
Bear	Oct. 15-Jan. 2	2

N. Carolina (cont.)		
Rabbit	Nov. 5-Jan. 10	7
Squirrel	Oct. 1-Jan. 2	8
Quail	Nov. 24-Jan. 31	8
Grouse		2
Turkey		1
Russian boar	Oct. 15-Jan. 2	1
Trout	Apr. 15-Aug. 31	10
Bass, black	No closed season	8
Pike, walleyed	No closed season	5
Bass, striped	No closed season	8
North Dakota		
Deer	Nov. 27-29 ♂†	1
Sharptail	Oct. 8-17†	3
Pin'd grouse		
Sage & ruffed grouse; part'ge	Dates not set	
Pheasant	Oct. 8-Nov. 20†	4
Bass	June 16-Oct. 31	5
Wall-eyed pike, northern pike	May 16-Oct. 31	10
Crappie, Sunfish	June 16-Oct. 31	15
Trout, Salmon	May 2-Sept. 30	5
Perch	May 16-Oct. 31	25
Ohio		
Deer	Dec. 13-18	1
Rabbit	Nov. 15-Dec. 18	4
Squirrel	Sept. 15-30	4
Pheasant	Nov. 15-25 ♂	
Hun. partridge	Closed	
Grouse	Nov. 15-25 ♂	2
INLAND DIST.		
Muskellunge	No closed season	2
Wall-eyed pike	No closed season	6
Sauger	No closed season	6
Trout	Apr. 15-Sept. 15	6
Bass	June 16-Apr. 30	6
LAKE ERIE DIST.		
Muskellunge	No closed season	
Wall-eyed pike	No closed season	
Sauger	No closed season	
Trout	Apr. 15-Sept. 15	6
Bass	July 1-May 24	6
Oklahoma		
Squirrel	May 15-Dec. 31	10
Quail	Inter. (Nov.-Jan.)	10
Bass	No closed season†	10
Chan. catfish	No closed season†	15
Crappie	No closed season†	15
Trout	No closed season	25
Oregon		
Deer	Oct. 1-20 ♂†	*1*
Elk	Oct. 25-Nov. 30	1
Antelope	Aug. 20-25	1
Squirrel	Oct. 1-20†	5
Quail	Oct. 1-20†	5
Blue Sage Hen	Oct. 1-5	2
Grouse, other	Sept. 1-5	5
Pheasant	Oct. 29-Nov. 2	2
Hun. partridge	Oct. 21-Nov. 9	
Trout, salmon, steelhead, less than 20"	May 1-Sept. 30	10
Bass, black; Perch, crappie, catf., sunf., bream, pike	No closed season	30
Str. bass, Sbad	No closed seasou No closed season	15 1
Pennsylvania		
Deer, female	No open season	
Deer, 2 pt. ant.	Nov. 29-Dec. 11	1
Deer, no ant.	Not set	1
Bear	Nov. 15-20	1
Rabbit, Cttl.	Nov 1-27	4
Raccoon	Nov. 1-Feb. 1	
Squirrel	Nov. 1-27	6
Quail, Bbwht.	Nov. 1-13	4
Grouse, Rfd.	Nov. 1-6	2
Pheas'nt,rgnk,m.	Nov. 1-27	2
Turkey	Nov. 1-27†	1
Partridge, Hun.	Nov. 1-13	2
Hare, snsboe	Dec. 20-Jan. 1	6
Trout	Apr. 15-July 31†	10
Trout, lk. or sal.	July 1-Sept. 29	8
Bass	July 1-Nov. 30	6
Pike-perch	July 1-Nov. 30	6
Pickerel	July 1-Nov. 30	6
Muskellunge, W. and N. pike	July 1-Nov. 30	2
Penn. (cont.)		
Yell. pcb., rock bass, str. or eal. bass, wh.; crappie, sunf., catf., suckers, carp	No closed season	15
Rhode Island		
Rabbit	Nov. 1-Dec. 31†	5
Hare	Nov. 1-Dec. 31	2
Squirrel	Nov. 1-Dec. 31	5
Quail	Nov. 1-Dec. 31	6
Grouse	Nov. 1-Dec. 31†	2
Pheasant	Nov. 1-Dec. 31 ♂	3
Bass	June 20-Feb. 20†	6
Pickerel	June 20-Feb. 20†	10
Trout	Apr. 15-July 15†	10
Striped bass	No closed season	
Perch, white	Apr. 15-Feb. 20	20
Perch, yellow	Apr. 15-Feb. 20	30
South Carolina		
Deer	Nov. 15-22† ♂	*1*
Rabbit	Nov. 24-Feb. 15	
Squirrel	Oct. 15-Jan. 31	
Quail	Nov. 24-Feb. 15	
Turkey	Nov. 23-Mar. 1	*5*
Trout, speckled	Jan. 1-Oct. 1	20
Trout, rainbow	Jan. 1-Oct. 1	20
Bass	No closed season†	8†
South Dakota		
Deer	Nov. 1-20 ♂†	*1*
Grouse, prairie chicken	Sept. 15-Oct. 24	3
Pheasant	Oct. 9-Feb. 22	4
Hun. partridge		
Trout	May 1-Sept. 30	15
Bass, w.-eyed pike, pickerel	June 15-Feb. 28	8
Bluegills	May 1-Feb. 28	15
Bullheads, pch.	May 1-Feb. 28	50
Crappies, sunf.	May 1-Feb. 28	15
Tennessee		
Deer	Nov. 17-30 ♂†	*1*†
Bear	Oct. 17-Nov. 30	
Rabbit	Nov. 24-Jan. 25	5
Squirrel	Oct. 1-Jan. 1†	6
Quail	Nov. 24-Jan. 25	8
Grouse	Nov. 24-Jan. 25	3
Wild boar	Oct. 17-Nov. 30	*1*†
Trout	Apr. 1-Oct. 1	10
Bass	May 30-Mar. 31	8
Wall-eyed pike	No closed season	5
Sauger pike	No closed season	10
Muskellunge	No closed season	5
Crappie	No closed season	15
Rock bass	May 30-Mar. 31	10
White, str. bass	No closed season	15
Yellow bass or jacks	No closed season	15
Warmoutb bass	No closed season	20
Bluegill bream	No closed season	20
Catfish	No closed season	
Buffalo	No closed season	
Texas		
Antelope	Oct. 1-9	1
Deer	Nov. 16-Dec. 31† ♂	*2*
Bear	Nov. 16-Dec. 31	*1*
Peccary	Nov. 16-Dec. 31†	*2*
Squirrel	Oct. 1-Dec. 31† May 1-July 31†	10
Quail	Dec. 1-Jan. 16†	12
Turkey	Nov. 16-Dec. 31† ♂	*3*
Bass, bl., sp'ted	No closed season	15
White bass	No closed season	25
Trout	No closed season	5
Crappie	No closed season	25
Catfish	No closed season	25
Utah		
Antelope	Not set	
Deer	Oct.22 -Oct. 31 † ♂	*1*
Elk (By permit)		*1*
Rabbit	No closed season	
Grouse, sage hen, prairie chicken	No open season	
Pheasant	Nov. 5-7	*3*†
Quail		10
Bass	May 15-Oct. 1	15
Trout	June 17-Oct. 1	15
Salmon	June 17-Oct. 1	15

Vermont		
Deer	Nov. 15-25 ♂†	*1*
Squirrel	Oct. 1-Oct. 31	4
Rabbit	Oct. 1-Feb. 28	3
Quail	No open season	
Grouse	Oct. 1-Oct. 31	4
Pheasant	Oct. Sat. & Wed. ♂	2-4
Bear	June 1-Dec. 31	
Trout	May 1-Aug. 14	20
Lake trout, salmon	May 1-Aug. 31	2
Bass	July 1-Nov. 30	5
Muskellunge	June 15-Apr. 14	25#
Pike-perch	May 1-Mar. 14	25#
Pickerel	May 1-Mar. 14	25#
Smelt	June 1-Mar. 31	
Virginia		
Deer	Nov. 20-Jan. 5† ♂	*1*
Bear	Nov. 20-Jan. 5†	*1*
Elk	Closed season	
Rabbit	Nov. 20-Jan. 20†	*75*
Squirrel	Nov. 20-Jan. 5	
Quail	Nov. 20 to ?†	*125*
Grouse	Nov. 20-Jan. 20	*15*
Pheasant	Nov. 20-Jan. 20	*20*
Turkey	Nov. 20-Jan. 20	*4*
Bass	E: June 20-Mar. 15	10
Bass	W: June 20-Dec. 31	10
Trout	Apr. 20-Sept. 15	15
Pike	W: Same as bass E: No closed season	20
Crapple	No closed season	
Bream	No closed season	25
Washington		
Deer	Oct. 9-30†	*1*
Bear	E: Oct. 9-30	*1*
Elk	Nov. 4-13 ♂†	*1*
Mt. Goat	Sept. 18-30	1
Rabbit	W: Oct. 9-Mar. 31† E: Oct. 9-Dec. 31†	5
Grouse	Sept. 4-5, Oct. 9-10†	2
Quail	Oct. 9-Nov. 6	10
Pheasant	Oct. 9-Nov. 6	3
Hungarian partridge	Oct. 9-Nov. 6	4
Steelhead	Dec. 1-Feb. 28†	3
Other game fish		
Lowl'd lakes	E: May 21-Sept. 15	20
Gen'l season	W: May 21-Oct. 31	20
West Virginia		
Deer	Nov. 28-Dec. 6	1
Rabbit	Nov. 1-Dec. 31	4

W, Virginia (con t,		
Squirrel	Oct. 15-Nov. 19	4
Quail	Nov. 11-Dec. 10	5
Grouse	Oct. 15-Nov. 19	3
Turkey	Oct. 15-Nov. 5	4
Trout, rnhw., brown	Apr. 29-July 15	10
Trout, brook	Apr. 29-July 15	15
Bass	June 17-Mar. 31	8
Pickerel	June 30-Apr. 30	
Muskellunge, w. eyed pike	June 17-Apr. 30	
Rk.bass,crapple, sunf., bluegill	June 17-Apr. 30	15
Catfish	June 17-Apr. 30	10
Perch	June 17-Apr. 30	10
Wisconsin		
Deer	Nov. 19-23† ♂	*1*
Deer (how & arrow)	Sept. 24-Nov. 7	*1*
Bear	Not set	
Raccoon	Not set	
Rabbit	Oct. 23-Jan. 15	3
Squirrel	Oct. 22-Dec. 5	3
Grouse	N-Oct. 1-30 S-Oct. 22-Nov. 4	3
Pheasant	N-Oct. 22-30 S-Oct. 22-Nov. 4	2
Hun. partridge	Oct. 22-Nov. 4	4
Quail	Nov. 2-5	4
Bass, black	June 20-Jan. 15†	5
Trout	May 14-Sept. 7†	10
Lake trout	Apr. 15-Sept. 30†	5
Wall eyed pike, sauger	May 1-Mar. 1	5†
No. pike, pick'l		5†
Muskellunge		1
Bass, other		25
Catfish		15
Bullheads		25
Other panfish	Apr. 29-Mar. 15†	25†
Wyoming		
Deer	Local season† ♂	*1*
Moose	Local seasons ♂	*1*
Elk	Local season† ♂	*1*
Bear	Local seasons	*1*
Sheep	Local seasons† ♂	*1*
Antelope	Local seasons†	*2*
Pheasant	Not set	
Trout	May 1-Oct. 31†	20
Grayling	May 1-Oct. 31†	20
Bass	May 1-Oct. 31†	20

MIGRATORY BIRD LAWS

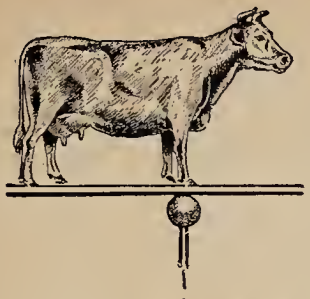
DO NOT HUNT ducks, geese, brant, coot, rails, gallinules, woodcock, or mourning dove until you have studied the laws on these birds issued in September, 1951, by the Fish and Wildlife Service, U. S. Dept. of Interior, Chicago 50, Illinois. The 1949 laws forbade the taking of any jacksnipe, Ross geese, or swan, and in some places, wood ducks, brant, snow geese, mourning dove, woodcock, and Canada geese. Daily bag limits have been running: Geese — East 2, Middle 4, Pacific 6; Ducks — East and near East 4, Midwest and West 5; Wood duck 1; Rails 15; Coot 10 interior, 15 coast, east and west; Woodcock 4; Mergansers 25; Doves and pigeons 10 and Sora, 25. The East has been enjoying special seasons on Scoters and Eider ducks — the West on bandtailed pigeon. Arizona has had a special season on white winged dove. There is no point in trying to list here the very complicated seasons on ducks, geese, etc. They are changed **radically** every year and as a rule shortened. Opening days in 1949, were:

Ducks, Geese, Brant, Coot: Oct. 7: — Me., Mich., Minn., Mont., N. H., N. D., Wyo. Oct. 14 — Col., Ida., Nev., N. M., Utah, Wisc. Oct. 21 — All remaining states except Nov. 4 — Conn., Ill., Ind., Mo., Tex., Wash. Nov. 18 — Ariz., Ark., La., Md., Mass., N. J., Tenn. Nov. 29 — Ala., Fla., Ga., Ky., N. C., R. I., S. C., Va.

Rails, Gallinules: Sept. 1 — Most states. Sept. 16 — Minn. Oct. 1 — Fla., Ga., N. C., S. C. Oct. 7 — Me., Mich., Oct. 14 — Wisc. Oct. 15 — Miss. Oct. 21 — N. Y. Nov. 29 — Ala., R. I.

Mourning Dove: Sept. 1 — Most states. Sept. 10 — Neb. Sept. 16 — Ark., Ga., Miss., N. C., S. C., Tenn., Va. Oct. 1 — Texas. Nov. 1 — Del. Dec. 1 — La. Dec. 17 — Ala., Fla.

Woodcock: Oct. 1 — Me., Minn., N. H., Vt., Wisc. Oct. 8 — Ohio. Oct. 10 — N. Y., Pa. Oct. 15 — Md. Oct. 20 — Conn., Mich., N. J. Nov. 1 — R. I. Nov. 10 — Mo. Nov. 15 — Del., Mass. Nov. 19 — Va. Dec. 1 — Ala., Ark., Miss. Dec. 12 — N. C. Dec. 23 — Ga., La.



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New England as the
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First National Stores, now serving more than 500 communities from Maine to New York, are as much a part of the New England scene as the Old Farmer's Almanac itself. For First National Stores are founded on the time-honored New England traditions of thrift and fine food.

FIRST NATIONAL STORES

ANECDOTES AND PLEASANTRIES

THE TIN PEDDLER

Jason White has come ter town
  Drivin' his tin peddler's cart,
Pans a-hangin' up and down
  Like they'd tear theirselves apart;
Kittles rattlin' underneath,
  Coal-hods scrapin' out a song.
Makes a feller grit his teeth
  When old Jason comes along.

Jason drives a sorrel mare,
  Bones and skin at all her j'ints.
"Blooded stock," says Jase; "I swear
  Jest see how she shows her p'ints!"
"Walkin's her best lay," says he,
  Eyes a-twinklin' full of fun,
Named her Keely Motor. See?
  Sich hard work to make her run."

Jason's just the slickest scamp,
  Full of jokes as he can hold;
Say's he beats Aladdin's lamp,
  Givin' out new stuff for old;
"Buy yer rags fer more than they're worth,
  Give yer bran-new shiny tin,
I'm the softest man on earth,"
  Says old Jason with a grin.

Jason gits the women's ear
  Tellin' news and talkin' dress;
Can't be peddlin' forty year
  And not know 'em more or less;
Children like; sakes alive!
  Why, my Jim, the other night
Says "When I get big I'll drive
  Peddler's cart like Jason White."

From *Cape Cod Ballads*
by Joseph C. Lincoln

HE KNEW HIS FATHER

"Now, Johnnie," said his teacher, "if your father borrowed $100 and promises to pay $10 a week, how much will he owe in seven weeks?"

"One hundred dollars," said Johnnie.

"I'm afraid you don't know your lesson very well," remarked the teacher.

"I may not know my lesson," said Johnnie, "but I know my father."

IT DEPENDS

A philosopher being asked whether life is worth living, answered, "That depends on the liver."

THE TRAVELER'S PUZZLE

This is an old story, and it may amuse our readers to exercise their wits over it. A man was once traveling with a wolf, a goat, and a cabbage. He was obliged to cross a river in a boat so small that he could only take one thing at a time, either the cabbage, the goat, or the wolf, but not two of them together. He was somewhat puzzled how to manage. If he took the wolf, the goat would eat the cabbage while he was gone; if he should take the cabbage, the wolf would kill the goat; if, finally, he should take the goat first, the wolf left behind would not eat the cabbage, it is true, but what could he take over on the second passage? Not the wolf, because he could not leave him with the goat while he went back for the cabbage; not the cabbage for he could not leave that with the goat while he was gone to get the wolf. Finally he hit upon a way to do it and did it successfully. How did he do it?

SPEAKING OF PUNS

Some years ago Harvard had on its football team two famous players in the backfield — Charlie Deveus and Eddie Mays. During the progress of one game the following conversation between two drunks was overheard.

"Whuzzat carried the ball?"

"Devens."

"Wrong — that was Mays."

"Oh what Devens does it Mays?"

YOU THREE

If your nose is close
To the grindstone rough,
And you hold it down
There long enough,
In time you'll say
There's no such thing
As brooks that babble
And birds that sing.
Those three will all
Your world compose;
Just you, the stone,
And your darned old nose.

HOW LONG, OH LORD?

A young business man, a deacon in his local church, was going to New York on business, and while there was to purchase a new sign to be hung in front of the church.

He copied the motto and dimensions, but, when he got to New York, discovered he had left the paper behind. Whereupon

Continued on page 65

FAVORITE BANANA RECIPES

FROM PRIZE WINNING NEW ENGLAND COOKS

presented by

Chiquita Banana

New England has long been famous for its fine food . . . its good cooks. Now some of those cooks have selected their favorite banana recipes for you.

In presenting these Recipes Chiquita Banana hopes You will Enjoy reading about the New England Cooks who selected them... and that You will Try their Favorite Banana Recipes.

These cooks were selected by a staff member of Yankee Magazine who traveled more than 1200 miles in search of New England's fine cooks. He found them by asking local people such as the postmaster, garage man or the local storekeeper for the name of the town's best cook. After obtaining the name of the cook, he set out to interview her. Some lived as far as ten miles from the center of town. Nothing daunted, he found and photographed these prize winning cooks.

NEW BANANA COOKBOOK FREE. *For copies of a beautifully illustrated cookbook (one of the few in which all pictures are in full color) try any one of the recipes on the following pages. Tell us on a postcard or in letter how you liked the recipe, and we will send you your free copy of this wonderful new cookbook.*

UNITED FRUIT COMPANY

PIER 3, NORTH RIVER, NEW YORK 6, N. Y.

MRS. MARTIN ROZEN, Newport, Rhode Island, is one of the city's well-known cooks. She serves as general chairman of many of the Masonic and Eastern Star suppers and banquets.

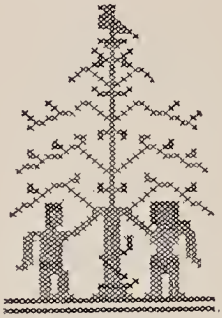
MRS. ROZEN'S FAVORITE BANANA RECIPE IS

Banana Bran Nut Bread

1 egg, well-beaten
1½ cups mashed ripe bananas* (4 to 5 bananas)
¼ cup melted shortening
1 cup bran, shredded or flaked
1½ cups sifted flour
2½ teaspoons baking powder
½ teaspoan baking sada
½ teaspaan salt
½ cup sugar
½ cup chapped nuts

**Use fully ripe or all-yellow bananas*

Combine egg, bananas, shortening and bran in mixing bowl. Sift together flour, baking powder, soda, salt and sugar. Add nuts and mix well. Add to banana mixture, mixing only enough to dampen all flour. Turn into a well-greased bread pan (8½ x 4½ x 3 inches) and bake in moderate oven (350°F.) about 1 hour 10 minutes, or until bread is done. Makes 1 loaf.



MRS. ADAMS' FAVORITE
BANANA RECIPE IS

Banana Drop Cookies

MRS. RALPH ADAMS, Chester, Vermont, worked her way through Green Mountain Junior College by helping in the kitchen. Her cooking ability has many calls made on it now, since she is the mother of five children and the cook at the Hilton House, Chester, Vermont.

- 2¼ cups sifted flour
- 1 cup sugar
- 2 teaspoons baking powder
- ¼ teaspoon baking soda
- ¾ teaspoon salt
- ⅔ cup shortening
- 2 eggs, unbeaten
- 1 cup mashed ripe bananas* (2 to 3 bananas)
- 1 teaspoon vanilla
- ¼ teaspoon cinnamon
- 1 tablespoon sugar

**Use fully ripe bananas . . . yellow peel flecked with brown*

Sift together flour, sugar, baking powder, soda and salt into mixing bowl. Cut in shortening. Add eggs, bananas and vanilla and beat until thoroughly blended. Drop by teaspoonfuls, about 1½ inches apart, onto ungreased cookie pans. Sprinkle with a mixture of cinnamon and 1 tablespoon sugar. Bake in a moderately hot oven (400°F.) about 12 minutes, or until cookies are done. Remove baked cookies from pan immediately.

Makes about 3 dozen medium-sized cookies.

MRS. SARAH F. TOLMAN, Chesham, N. H., has managed her own boarding house for almost fifty years. During that period a great many fortunate guests have enjoyed her good old-fashioned cooking.

MRS. TOLMAN'S FAVORITE BANANA RECIPE IS

Banana Meat Loaf

1 pound ground raw beef
1 tablespoon chopped onion
2 teaspoons salt
¼ teaspoon pepper
1 cup soft bread crumbs
¾ cup mashed firm bananas* (1 to 2 bananas)
½ teaspoon dry mustard

**Use all-yellow or slightly green-tipped bananas*

Mix together meat, onion, salt, pepper and crumbs in mixing bowl. Combine bananas and mustard. Add to meat mixture and mix well. Form mixture into a loaf and place into a well-greased baking dish (8½ x 4½ x 3 inches). Bake in a moderate oven (350°F.) about 1 hour, or until loaf is done. Four to six servings.

MRS. HARLEY PARKER, Rockport, Mass., was born in Norway and came to this country in 1912. One of her specialties is Norwegian Coffee Bread.

MRS. PARKER'S FAVORITE BANANA RECIPE IS

Banana Spice Layer Cake

(1-Bowl Method)

Before Mixing: *Have shortening at room temperature. Grease pans. Set oven at correct temperature (375°F.).*

2¼ cups sifted cake flour
1¼ cups sugar
2½ teaspoons baking powder
½ teaspoon baking soda
½ teaspoon salt
⅛ teaspoon ground cloves
1¼ teaspoons cinnamon
½ teaspoon nutmeg
½ cup shortening
1½ cups mashed ripe bananas* (4 to 5 bananas)
2 eggs, unbeaten
1 teaspoon vanilla

**Use fully ripe bananas . . . yellow peel flecked with brown*

Sift together flour, sugar, baking powder, soda, salt and spices into large mixing bowl. Add shortening, ½ cup of the bananas and eggs. Beat 2 minutes at slow to medium speed with electric mixer or 2 minutes by hand. Scrape down bowl and beater or spoon frequently during mixing. Add remaining 1 cup bananas and vanilla. Beat 1 minute longer. Turn into 2 well-greased, 8-inch layer cake pans. Bake in a moderate oven (375°F.) about 25 minutes, or until layers are done. Frost with your favorite frosting. Makes 1 cake.

MRS. LONG'S FAVORITE BANANA RECIPE IS

Banana Cream Pie

½ cup sugar
5 tablespoons flour
¼ teaspoon salt
2 cups milk
2 egg yolks, slightly beaten
1 tablespoon butter or margarine
½ teaspoon vanilla
1 baked 9-inch pie shell
3 ripe bananas*

**Use fully ripe bananas . . . yellow peel flecked with brown*

Combine sugar, flour and salt in top of double boiler. Add milk slowly, mixing thoroughly. Cook over rapidly boiling water until well-thickened, stirring constantly. Cook 10 minutes longer, stirring occasionally. Stir small amount of hot mixture into egg yolks; then pour back into remaining hot mixture while beating vigorously. Cook 1 minute longer. Remove from heat and add butter or margarine and vanilla. Cool thoroughly. Cover bottom of pie shell with small amount of cooled filling. Peel bananas and slice into pie shell. Cover immediately with remaining filling. Top with meringue or sweetened whipped cream, if desired. Makes 1 pie.

MRS. MADELINE LONG, Caribou, Maine, is well known as a professional cook. For years she operated a restaurant. Now she serves delicious dinners to private parties and to large groups.

MRS. ELIZABETH ASH lives at picturesque Loring's Shanty in Wickford, Rhode Island. Not only is she an excellent cook, but she enjoys cooking. She often prepares suppers for large church groups.

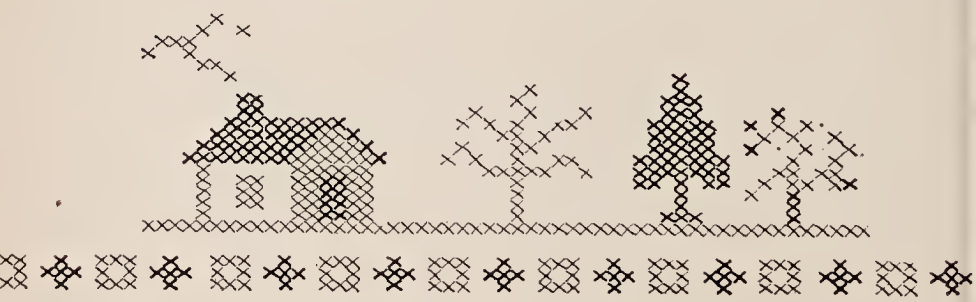
MRS. ASH'S FAVORITE BANANA RECIPE IS

Banana Grapefruit Whirl Salad

1 ripe banana*
Salad greens
12 grapefruit segments (about 1 grapefruit)

**Use fully ripe banana . . . yellow peel flecked with brown*

Peel banana and cut lengthwise into halves. Place one half, cut side up, in center of each of 2 salad plates. Arrange grapefruit segments in fan shape in front and back of banana halves. Garnish with crisp salad greens. Serve with French dressing. Two servings.



MRS. PETER CRAWFORD, Marlboro, Conn., is the local 4-H leader. Her daughter, Helen Abigail, is a senior in high schoo. and last year won the state 4-H foods preparation contest.

THE CRAWFORDS' FAVORITE BANANA RECIPE IS

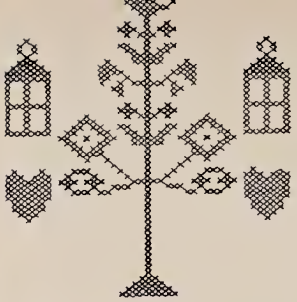
Banana Tea Muffins

1¾ cups sifted cake flour
2 teospoons boking powder
¼ teospoon baking sodo
¾ teaspoon solt
⅓ cup sugar
1 egg, well-beaten
⅓ cup melted shortening or salad oil
1 cup mashed ripe bananos* (2 to 3 bananas)

**Use fully ripe bananas . . . yellow peel flecked with brown*

Sift together flour, baking powder, soda, salt and sugar into mixing bowl. Mix together egg, shortening and bananas. Add to dry ingredients, mixing only enough to dampen all flour. Turn into well-greased small muffin pans and bake in a moderately hot oven (400° F.) about 20 minutes, or until muffins are done. Serve hot or cold. Makes 16 small muffins.

MRS. IDA M. CALDER, Marblehead, Mass., has been cooking for more than fifty-five years. For years she has cooked for boarders. At one time her boarders numbered twenty-two.



MRS. CALDER'S FAVORITE BANANA RECIPE IS

Banana Fritters

Melted fat or salad oil
2 to 3 firm bananas*
¼ cup flour
Fritter Batter

**Use all-yellow bananas*

To deep-fry, have deep kettle ½ to ⅔ full of melted fat or oil. To shallow-fry, have 1½ to 2 inches of melted fat or oil in frying pan. Heat fat to 375°F., or until a 1-inch cube of bread will brown in about 40 seconds. Peel bananas and cut each crosswise into 3 or 4 diagonal pieces. Roll in flour. Dip into Fritter Batter, completely coating the banana pieces with the batter. Deep-fry or shallow-fry in the hot fat about 6 minutes, or until well browned. Turn fritters frequently to brown evenly. Drain on a rack. Serve hot with the main course . . . or serve as a dessert with a hot fruit sauce, syrup or sweetened whipped cream. Makes 6 to 12 fritters.

Fritter Batter

1 cup sifted flour
2 teaspoons baking powder
1¼ teaspoons salt
¼ cup sugar
1 egg, well-beaten
⅓ cup milk
2 teaspoons melted shortening

Sift together flour, baking powder, salt and sugar into mixing bowl. Combine egg, milk and shortening. Add to dry ingredients and mix until batter is smooth.

Important: Have fat at correct temperature (375°F.) before frying. This is a stiff batter, and it makes a crisp fritter which will stay crisp for 15 to 20 minutes. This batter should not be "thinned down."

MRS. JOHN HUNTER, Newington, Conn., teaches English in the Hartford Branch of the University of Conn., while her husband teaches English in Teachers' College, New Britain, Conn. Mrs. Hunter is well known for the many southern dishes that she cooks.

MRS. HUNTER'S FAVORITE BANANA RECIPE IS

Banana Pineapple Salad

1 ripe banana*
2 slices canned pineapple
Salad greens
Berries or cherries

**Use fully ripe banana . . . yellow peel flecked with brown*

Peel banana and arrange a ring of pineapple around each end. Place in the center of the salad plate. Garnish with crisp salad greens, and berries or cherries, if desired. Serve with a sweet or tart dressing. One large salad.

GEORGE WOOL and his son, Martin, of Exeter, New Hampshire, enjoy out-of-door cooking as a hobby. Together they have prepared many a supper over their open-air fireplace.

THE WOOLS' FAVORITE BANANA RECIPE IS

Ham Banana Rolls with Cheese Sauce

4 thin slices boiled ham
Prepared mustard
4 firm bananas*
1½ tablespoons melted butter or margarine
Cheese Sauce

**Use all-yellow or slightly green-tipped bananas*

Spread each slice of ham lightly with mustard. Peel bananas. Wrap a slice of the prepared ham around each banana. Brush tips of bananas with butter or margarine. Place Ham Banana Rolls into a greased shallow baking dish, and pour Cheese Sauce over them. Bake in a moderate oven (350°F.) 30 minutes, or until bananas are tender . . . easily pierced with a fork. Serve hot with the Cheese Sauce from the baking dish. Four servings.

Cheese Sauce

1½ tablespoons butter or margarine
1½ tablespoons flour
¾ cup milk
1½ cups grated sharp American cheese

Melt butter or margarine in saucepan; add flour and stir until smooth. Stir in milk slowly. Add cheese and cook, stirring constantly until sauce is smooth and thickened. Makes about 1 cup sauce.

MRS. JAMES C. ROBERTSON, Belfast, Maine, has earned her enviable reputation as an excellent cook by serving on many committees for church suppers.

MRS. ROBERTSON'S FAVORITE BANANA RECIPE IS

Banana Pear Star Salad

1 ripe banana*
4 pear halves, fresh or canned
Cottage cheese
Parsley
Pimiento

**Use fully ripe banana . . . yellow peel flecked with brown*

Peel banana and divide into quarters by cutting once lengthwise and once crosswise. Arrange banana quarters, points out and cut sides down, on a salad plate so that they radiate from the center and divide the plate into four equal sections. Place a pear half in each section between banana quarters, alternating cut side up and cut side down, stem ends toward the center of the plate. Place cottage cheese in center of salad plate. Surround cottage cheese with a ring of parsley and garnish with pimiento. Serve with a tart or sweet salad dressing. One serving.

MRS. CHARLES CARR lives in Jamestown, Rhode Island, during the summer months, and during the winter in Sarasota, Florida, where her husband operates a hotel. In raising a family of five children, Mrs. Carr has had a great deal of experience as a cook.

MRS. CARR'S FAVORITE BANANA RECIPE IS

Banana Apple Betty

2 tart apples, pared and cored
3 firm bananas*, peeled
¾ cup sugar
½ teaspoon cinnamon
¼ teaspoon salt
2 cups soft bread crumbs
3 tablespoons melted butter or margarine

**Use all-yellow bananas*

Slice apples and cut bananas crosswise into ½-inch pieces. Combine fruit, sugar, cinnamon and salt. Mix bread crumbs with butter or margarine. Place alternate layers of crumbs and fruit into a well-buttered baking dish, using crumbs for top and bottom layers. Cover baking dish and bake in a moderate oven (375°F.) about 40 minutes, or until apples are tender. Uncover. Continue baking 5 minutes longer or until crumbs are browned. Serve hot with cream or fruit sauce. Four to six servings.

HERBERT WHITNEY, Rockport, Mass., is a Navy veteran. During the winter months he cooks in a Boston hotel. In the photograph above, he is shown at his summer job, broiling over The Forge at the Blacksmith Shop Restaurant, Rockport.

MR. WHITNEY'S FAVORITE BANANA RECIPE IS

Glazed Bananas

4 firm bananas* **Sugar**
Lemon juice **Butter or margarine**

**Use all-yellow or slightly green-tipped bananas*

Peel bananas. Brush well with lemon juice. Roll in sugar. Fry bananas slowly in butter until brown and tender . . . easily pierced with a fork . . . turning them to brown evenly. Serve hot as a vegetable. Four servings.

MISS EDITH J. HODGDON, Northfield, Vermont, has been actively engaged in the food field since 1926. Among famous eating places where she has worked is Salmagundi's in Boston. At present she operates the Little House and Pantry in Northfield.

MISS HODGDON'S FAVORITE BANANA RECIPE IS

Banana Tea Bread

1¾ cups sifted flour
2 teaspoons baking powder
¼ teaspoon baking soda
½ teaspoon salt
⅓ cup shortening
⅔ cup sugar
2 eggs, well-beaten
1 cup mashed, ripe bananas*
(2 to 3 bananas)

**Use either fully ripe or all-yellow bananas*

Sift together flour, baking powder, soda and salt. Beat shortening until creamy in mixing bowl. Add sugar gradually and continue beating until light and fluffy. Add eggs and beat well. Add flour mixture alternately with bananas, a small amount at a time, beating after each addition until smooth. Turn into a well-greased bread pan (8½ x 4½ x 3 inches) and bake in a moderate oven (350°F.) about 1 hour 10 minutes, or until bread is done. Makes 1 loaf.

FOR FREE REPRINTS *of this insert, write UNITED FRUIT COMPANY, Pier 3, North River, New York 6, N.Y.*

Printed in USA. 1950

Continued from page 48

he wired his wife: "Send motto and dimensions."

An hour later a message came over the wire and the new lady clerk, who just came from lunch and who knew nothing of the previous message, read it and fainted.

The message said: "Unto us a child is born. 6 ft. long and 2 ft. wide."

PROBABLY THE ONLY PLACE

In the world where mail is delivered regularly on Sundays is on Manchester Street, up in Manchester, Vt. Here's the story behind it. Abraham Lincoln for some summers stayed in Manchester at the Equinox Hotel, and when he was there his mail was delivered to him on Sundays, just as on week days.

Manchester Streeters continue the custom as a tribute to him.

Dr. Chauncey Depew's recipe for happiness is to keep in touch with the young: "Join in their games, be a partner in their dance, romp the fastest and turn the quickest in the Virginia reel or country dance; go up to the old college, and sit down, and light your pipe, and sing college songs; take the children to the theatre, and howl with them at the roaring farce, and laugh with them at the comedy, and cry with them at the tragedy; be a confidant in their love affairs, and if they are not equal to it, write their love letters, and never stop writing some for yourself."

Ralph Waldo Emerson once said that he hesitated before throwing away the smallest scrap of a newspaper before looking at both sides of it, "lest it should contain some thought or fact or verse worthy of preservation."

A correspondent of the *Springfield Republican* tells the following story of Hannibal Hamlin when a young man: He called a caucus to choose delegates to the Maine conventions, State, county, and congressional. Two persons came, Hannibal himself and John Smith. They elected a full list of delegates, but when it came to their credentials a difficulty arose. Hamlin was chairman of the caucus, and Smith secretary; but how was the gathering to be described? Hamlin said, "Mr. Smith, write, 'At a large and respectable caucus, so-and-so were chosen delegates to the State convention,' and then put the names," "But, Squire Hamlin, can we call this caucus large and respectable, — only you and me?" — "Why not, Mr. Smith? You are large, and I am respectable; what's the difficulty?" And the credentials were so made out.

The New Pastor: Good morning, my dear child. Is your mamma at home?"

Willie: "Yes, sir, she's at home; but I'm afraid the consolations of religion will be thrown away on her to-day, sir." — "Dear me! And why so?" — "She's having trouble with her jell, sir."— *Cleveland Plain Dealer.*

A DELICATE FLUID

Housekeeper: "That milk you left yesterday was perfectly horrid. It tasted of garlic."

Milkman: "Milk is easily spoiled, Mum. Had you been cookin' garlic?"

"No, we haven't."

"Been keepin' garlic in th' milkpans, may be?"

"We never use it."

"Queer. May be some o' th' neighbors has been cookin' garlic."

"No, they haven't."

"Any visitors at your house yesterday?"

"Not even a caller, except my daughter's French teacher."

"H'm! Better drop French, Mum." — *New York Weekly.*

IN PASSING

The Excellence of Intentions is a distressingly poor cement for the Fragments of Failure.

If you are not too large for the place, you are too small for it.

A pound of pluck is worth a ton of luck.

FATHER'S ESSAY WRITING

Teacher — I am sorry to say it, Henry, but your composition is not worthy of you. The rhetoric is faulty, the logic weak, the statements are based upon misinformation, and the style is lamentably crude.

Henry — My! Won't my dad be mad when I tell him that?

Teacher — But you can tell him you did your very best.

Henry — Did my best nothing. Dad wrote the whole of it himself.

SCIENTISTS AT WORK

Courtesy (in part) U. S. Department of Agriculture

1. "Feeding through the Leaves." We had learned in our student days that leaves breathed and were a kind of manufacturiug plant for the food sent up to them by the roots. But we didn't know that leaves ate. They do, as the use of soluble nitrates fed directly onto the leaves of any tree or shrub (though especially apple trees) by the customary spray machines has proved. The particular product we have in mind is "Nugreen," put out by DuPont, and consisting of highly soluble nitrogen pellets. Used as it may be with other spray materials, it apparently obviates the need of hand-spread or machine broadcast fertilizers.

The time and money saved by combining the spraying and fertilization operations is obvious. Best time for applications ou apple trees would be just at the early pink, late pink, petal fall, and first cover stage — about ten days after the petal fall. Any variation of this schedule should probably not be put off later than the petal fall nor see a last application later than mid June.

Whether the use of so much concentrated nitrogen is what is needed solely year after year for orchardists is a debatable question. Certainly the use of "Nugreen" or any other high nitrate product would not preclude the use of mulch every year or the use of balanced fertilizers as well — or in odd years.

2. "Seeding by Airplane on Ranges." After forest and brush fires it is desirable to assure growth of a quick cover as soon as possible. In California, for example, the Forest Service has used planes to sow mustard over burned areas almost as soon as the ashes have cooled.

An experimental device that has given favorable results is the planting of "Pelleted" seeds. Seed is mixed with soil and the soil formed into small balls — like marbles or large shot. Each pellet is roughly a quarter of an inch in diameter and contains about half a dozen grass seeds. This method is so new that foresters have not yet had time to test it thoroughly or to make counts of the grasses that result from such seedings. But the pellets can be scattered fairly evenly by plane, and the small balls of earth break dowu to provide some covering for the seeds.

The use of seeding by plane is not efficient, or sufficient, unless the fire has left enough ash, as in heavy timber or brush fires, to assure some coverage of the seeds. Grass fires practically denude the soil of cover, and in these cases the familiar ground methods of seeding still are the more successful.

3. "The Orange Situation." Up to 20 years ago orange crops had ranged below 1,200,000 tons a year. Recent crops have been about four times that quantity. Consumption of the fresh fruit has more than doubled in the two decades, and now the consumption of the processed orange products has increased from a trifling supply to a quantity greater than the total crop of 20 years ago.

4. "Topcrop — The Commercial Stringbean." Topcrop is the winner of the 1950 Gold Medal among the All-America selections — and has proved its high quality for eating fresh, for canning, and for freezing — with a higher yield (nearly double) than the common varieties. From the commercial grower's point of view it is wonderful, because he will get the full yield of this great crop in two pickings. As Topcrop comes into bearing in 7 weeks, repeated plantings every ten days or two weeks are desirable.

5. "Re-Use of City Water." Wherever man has tapped natural reserves of water extensively, the water tables of our land have fallen. This is as true in the West as in the East. As true, in principle, for irrigation, as for the providing of great cities like New York or Los Angeles with their water. The subject is one for sermons — or volumes — or simple paragraphs. Or a sentence. **We can exhaust our natural water supplies.**

We can do these things to halt or offset overuse of water: distribute run-off water from mountain areas in the West to the plain areas where waters rush through — fan the waters out, or hold them back, to the end that they shall sink into the naturally thirsty soil

and so provide again the kind of water deposits that California has fast been draining dry with its artesian wells; return all water used (everywhere possible) to the ground water supply; hold within watershed potentials at all times the use of water for city and industrial purposes; spread the gospel that our land is the sponge from which we wring out water, be it by rivers, dams, artesian wells, or surface wells . . . **and we can exhaust these.**

6. **"The Old Chestnut Again."** The old New England Chestnut and the Old Farmer have faith in each other. The Old Farmer doesn't believe the chestnut trees of New England and the East are things of the past — the pure strain. The chestnut trees of our youth despite years of blight are not all dead yet (the stumps at least) — and there are new young shoots unblighted — some of them bearing chestnuts. These reports are from many authenticated sources in New England. Chinese chestnuts may be introduced in the southeast, and perhaps as far north as the New England States, and these, sweet and good-keepers, are apparently blight resistant. Speculatively, may they not be coming in just when our chestnuts are on their way back?

Chestnuts of the "old strain" may or may not be able to shake off the blight. Logically they should be able to — after all these years of dying — and now to spring anew and produce seedlings!

7. **"More Artificial Insemination."** At the beginning of the year more than 2,400,000 cows in more than 300,000 herds are enrolled for artificial insemination. The Bureau of Industry estimates that about 10 percent of all dairy cows in the United States will have been bred artificially in the past year.

The primary advantage of artificial insemination is, of course, from the much wider use of the very best sires. The artificial breeding association can afford to select sires of highest quality, such as the individual owner of a producing herd could not expect to use because there are not enough sires of superior quality to go around.

8. **"Pill For Lobsters."** Hitherto lobsters caught in Maine or anywhere else along the eastern seaboard might be transported to western markets only in barrels with ice and seaweed — with an average loss of 10 to 30 per cent of the lobster weight depending on the heat during shipment. Now Joseph R. MacDonald, executive of the Live Pak Foods Company of Boston, has devised a pill which will produce artificial salt water of just the kind that will keep eastern lobsters alive and full-weighted till they reach their furthest destination. Lobsters cannot live in Pacific water, polluted water or fresh water, and so Mr. MacDonald's pill — or "gunk" as he calls it — combines the particular saltiness of North Atlantic waters with other chemicals required for healthy lobsters — and a certain small amount of this added to any fresh water will turn it into a proper carrier medium for lobsters anywhere. Eventually tanks of water so treated placed strategically all over the country will allow eastern seaboard lobsters to "swim" across the continent.

9. **"Seeds from Canada."** The United States Department of Agriculture report on importations of agricultural seeds emphasizes the close relation of farming north and south of the Canadian border. For the fiscal year ending June 30, 1949, the three crops for which imports of seed were greatest were sweet clover, alfalfa and oats. Of the more than 20 million pounds of alfalfa seed, Canada supplied more than 19 million pounds with the greater part of the remaining coming from the Union of South Africa. Canada also supplied nearly all of the more than 13 million pounds of imported oat seeds.

10. **"More Drying, More Rot of Sugar Beets."** Though moisture and decay generally are thought to be a team of cause and result, it isn't so in the case of sugar beets according to John O. Gaskill, sugar beet specialist. He finds that the more the beets are dried before storing, the more they are subject to rot. Excessive drying cracks the cells of the beets makes them vulnerable to the attacks of various organisms.

11. **"Niacin, Thiamine, Riboflavin and Iron."** These, say the United States Department of Agriculture, are what have provided the "enrichment" of cereal foods in late years. About 65 percent of all the

white flour sold as flour, bread and other cereal products in 1948 was enriched. At least 25 states now require enrichment of white bread, rolls, and flour.

12. "Creeping Tractors." To slow down a tractor to 1 mile in 8 hours was just what the market needed — for particular purposes: the transplanting to nursery rows the tree and shrub seedlings grown in seed beds to supply planting stocks for windbreaks and for planting in woodlands and forest farms. Such "creeping" was properly the care of a Nursery Manager (pun intended) — Tom Bradley of the Soil Conservation Service — in charge of the tree nursery near Zanesville, Ohio. He altered a tractor into a creeper by setting the engine of his tractor just enough ahead on its frame so that he could introduce an automobile transmission into the power line. Then by operating both the regular tractor and the newly added transmission unit in low gear the machine could move steadily forward at 10 feet a minute. This is as fast as skilled workers can feed the tiny trees into the transplanting machines. The tractor hauls 5 of these units and permits a driver and 5 plaut handlers to get young trees into the nursery transplanting bed at the rate of about 10,000 an hour.

13. "Metal Ladders and Electricity." Because of their strength and light weight, ladders made of aluminum or similar metals have become increasingly popular among fruit growers. However, unlike older types, metal ladders are excellent conductors of electricity.

The Farm Service Division of the Detroit (Mich.) Edison Company suggests, therefore, that special caution be taken to prevent contact with electric lines running through or alongside orchards, for such contact may result in serious, even fatal, accidents.

14. "Organic Gardening." Ray Koon, in the May 1950 issue of *Horticulture*, states: "The organic champions claim that chemical fertilizers are ruining our soils and undermining the health of man and animals and are responsible for nervousness, heart trouble, gall stones, ulcers, arthritis, rheumatism and cancer. This is not proven!

"Another indictment against chemical fertilizers is that they are killing off our earthworms, those faithful underground toilers, so beneficial to the soil. The falsity of this claim has been proved again and again. The most recent report on this comes from the U.S.D.A. Research Station at Beltsville, Md., as a result of carefully controlled experiments: 'Earthworms thrive and do a better job of soil building on well-fertilized land. More benefit is obtained from fertilizer when earthworms are present.' So it works both ways.

"The defenders of the organic theory say that bugs and blights are not so likely to attack plants grown without fertilizer. Pests just don't like the taste of unfertilized plants, it seems. This is not true. It is true that healthy plants are better able to resist pest attacks than are unhealthy plants, but we grow such plants in soil well-balanced as to both organic matter and chemical plant food.

"And right there is the secret of successful farming and good gardening — the maintenance of a proper balance between organic materials and chemical fertilizer.

"Louis Bromfield, well-known author and the proprietor of Malabar farm in Ohio, recognizes the importance of a humus-packed soil, and has improved his impoverished acres by turning under tons of vegetable matter. But he says: 'Do not think for a second that I belong to what is called the organic farming group. It is impossible for this country to do without chemical fertilizer and in great quantities.'"

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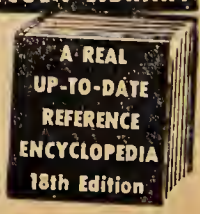

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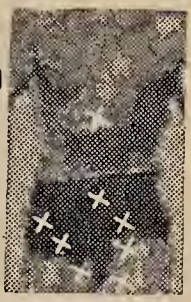

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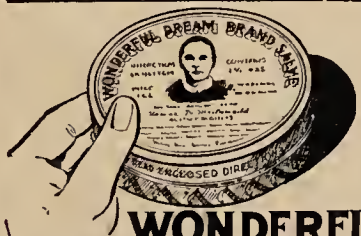

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Pres. No.	V.P. No.	Name	Party	Date Inaug.	Served
1		George Washington	Fed.	1789	1789–93
					1793–97
	1	John Adams		ditto	ditto
2		John Adams	Fed.	1797	1797–1801
	2	Thomas Jefferson		ditto	ditto
3		Thomas Jefferson**	Dem. Rep.	1801	1801–05
	3	Aaron Burr**		ditto	ditto
		Thomas Jefferson	Dem. Rep.	1805	1805–09
	4	George Clinton		ditto	ditto
4		James Madison	Dem. Rep.	1809	1809–13
		George Clinton		ditto	ditto
		James Madison	Dem. Rep.	1813	1813–17
	5	Elbridge Gerry		ditto	ditto
5		James Monroe	Dem. Rep.	1817	1817–21
					1821–25
	6	Daniel D. Tompkins		ditto	ditto
6		John Quincy Adams	Rep.	1825	1825–29
	7	John C. Calhoun		ditto	ditto
7		Andrew Jackson	Dem.	1829	1829–33
		John C. Calhoun		ditto	ditto
		Andrew Jackson	Dem.	1833	1833–37
	8	Martin Van Buren		ditto	ditto
8		Martin Van Buren	Dem.	1837	1837–41
	9	Richard M. Johnson		ditto	ditto
9		William H. Harrison*	Whig	1841	1841–
	10	John Tyler		ditto	ditto
10		John Tyler**	Whig		1841–45
11		James K. Polk	Dem.	1845	1845–49
	11	George M. Dallas		ditto	ditto
12		Zachary Taylor*	Whig	1849	1849–
	12	Millard Fillmore		ditto	ditto
13		Millard Fillmore**	Whig		1850–53
14		Franklin Pierce	Dem.	1853	1853–57
	13	William R. King		ditto	ditto
15		James Buchanan	Dem.	1857	1857 61
	14	J. C. Breckinridge		ditto	ditto
16		Abraham Lincoln	Rep.	1861	1861–65
	15	Hannibal Hamlin		ditto	ditto
		Abraham Lincoln*	Rep.	1865	1865–
	16	Andrew Johnson		ditto	ditto
17		Andrew Johnson**	Dem.	1865	1865–69
18		Ulysses S. Grant	Rep.	1869	1869–73
	17	Schuyler Colfax		ditto	ditto
		Ulysses S. Grant	Rep.	1873	1873–77
	18	Henry Wilson		ditto	ditto
19		Rutherford B. Hayes	Rep.	1877	1877–81
	19	William A. Wheeler		ditto	ditto
20		James A. Garfield*	Rep.	1881	1881–
	20	Chester A. Arthur		ditto	ditto
21		Chester A. Arthur**	Rep.		1881–85
22		Grover Cleveland	Dem.	1885	1885–89
	21	Thomas A. Hendricks		ditto	ditto
23		Benjamin Harrison	Rep.	1889	1889–93
	22	Levi P. Morton		ditto	ditto
		Grover Cleveland	Dem.	1893	1893–97
	23	Adlai E. Stevenson		ditto	ditto
24		William McKinley	Rep.	1897	1897–1901
	24	Garrett A. Hobart		ditto	ditto
		William McKinley*	Rep.	1901	1901–
	25	Theodore Roosevelt		ditto	ditto
25		Theodore Roosevelt**	Rep.		1901–05
		Theodore Roosevelt	Rep.	1905	1905–09
	26	Charles W. Fairbanks		ditto	ditto
26		William H. Taft	Rep.	1909	1909–13
	27	James S. Sherman		ditto	ditto
27		Woodrow Wilson	Dem.	1913	1913–17
					1917–21
	28	Thomas R. Marshall		ditto	ditto
28		Warren G. Harding*	Rep.	1921	1921–23
	29	Calvin Coolidge		ditto	ditto
29		Calvin Coolidge**	Rep.		1923–25
		Calvin Coolidge	Rep.	1925	1925–29
	30	Charles G. Dawes		ditto	ditto
30		Herbert C. Hoover	Rep.	1929	1929–33
	31	Charles Curtis		ditto	ditto
31		Franklin D. Roosevelt	Dem.	1933	1933–37
					1937–41
	32	John N. Garner		ditto	ditto
		Franklin D. Roosevelt	Dem.	1941	1941–45
	33	Henry A. Wallace		ditto	ditto
		Franklin D. Roosevelt*	Dem.	1945	1945–
		Harry S. Truman		ditto	ditto
32		Harry S. Truman**		1945	1945–49
		Harry S. Truman		1949	1949–
	34	Alben W. Barkley		ditto	ditto

YOU CAN HEAR HARRY COMING?

Some years ago some idle wit collected figures giving the distances to which sound is conveyed under favorable atmospheric conditions. He reported that J. J. Stranahan of Erie, N. Y. heard the noise of the train and its whistle on the trestle at Erie, nineteen miles distant. W. J. M. of San Pablo, Calif. could hear clearly on calm Fall days the rumble of cars and the train whistle from a trestle eighteen miles distant. J. H. S. said he could hear frequently the railroad shop whistle at Grand Island from his home in Orville, 28 miles distant. C. V. Swarthout, Cape Vincent, N. Y. frequently heard the whistle at Kingston, Ontario, twenty miles away. Carpenters working on the roof of a Jaffrey, New Hampshire church are said to have heard the cannon at Bunker Hill —sixty-five miles away.

PALACE OF ICE

Built by the direction of Anne, Empress of Russia, in 1739 to honour the nuptials of Prince Galatzin with a peasant girl was The Palace of Ice. The bride and bridegroom had to pass their wedding night in a room the walls of which, all the furniture, and even the bed itself were wholly of ice.

LUCKY FRIDAY

Friday is a lucky day for the U.S. Christopher Columbus sailed for America on Friday, August 21. He discovered America on Friday, October 12. On Friday, Jan. 4, 1493, he returned to Spain, and arrived safely on Friday, March 13. On Friday, Nov. 22, he arrived safely again on our shores, and on Friday, June 13, 1494 he discovered this continent. On Friday, March 5, 1496, Henry VIII gave John Cabot his commission. On Friday, Sept. 7, 1565, Melendez founded St. Augustine. On Friday, Nov. 10, 1620, the Mayflower reached Provincetown . . . and Plymouth on Friday, the 22nd. Saratoga surrendered Friday, Oct. 17, 1777. Yorktown surrendered Friday, Sept. 19, 1791. John Adams moved for U.S. Independence on Friday, July 7, 1776. The Newfoundland cable was laid safely by Friday, July 27, 1866.

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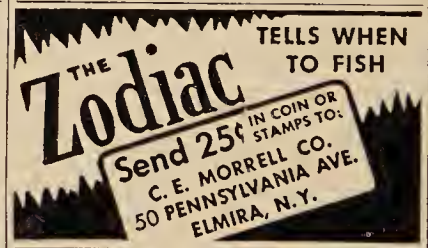

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The Voiage and Travaile of Sir John Maundeville, Knight.

In 1356 A.D. John Maundeville, an Englishman, penned by hand in four different languages an account of travels he had made over a period of 34 years. Excerpts from this book taken from a 1725 English edition, now out of print, follow. The spelling in these excerpts has been modernised, the construction remains like the original. The woodcuts reprinted here are identical with the originals. The original runs some 316 pages in type and is much sought by scholars everywhere. Owners of this edition of the Almanac should realise that these excerpts constitute the only available American or English "Maundeville," as well as a first edition in the modernised spelling.

Much of Maundeville is incredible and fantastic but the border land of this strange, "real," world of the present day — a world of changing frontiers, discovery, and invention — is certainly no less incredible than that of Sir John.

"John Maundeville departed from his country (England) in the year of Christ 1322; and as another Ulysses, returned home, after a space of 34 years. . . . In the time of his travaile he was in Scythia, the greater and less Armenia, Egypt, both Lybyas, Arabia, Syria, Media, Mesopatamia, Persia, Chaldaea, Greece, Illyrium, Tartary, and divers others kingdoms of the world."

Sir John speaks:

Of the Land Of Tartary and the Great Khan

Now I have told you of some of the ways, by land and water that men go to Jerusalem; yet there is one way entirely by land unto Jerusalem — and that is by France. But the way is full long and perilous. And whoso goeth that way, he must through Alamayn (Germany) and Prussia; and so unto Tartary. This Tartary belongs to the great Khan.

This is a poor land and beareth but little fruit. For there groweth little of corn or grain or beans or peas; but beasts be there enough. And there the people eat nought but flesh without bread; and they drink the broth thereof, and also they drink the milk. And all manner of wild beasts they eat — wild dogs, cats, raccoons, and all other wild beasts. And they have no wood or else little. And therefore they warm themselves and cook there over horse dung and cow dung, and of other beasts, dried against the sun, and princes and others eat but once in the day; and that but little, and they be right foul folk and of evil kind.

And in summer falleth many tempests and many hideous thunders and lightnings that slay much people and beasts. It is a country not worthy for hounds to dwell in. It is a country to sow to thistles and briers and broom and thorns — for no other thing is it good.

Adam and Eve

Of the Beliefs of Saracens

Of the Saracens I shall tell of a book Mahomet wrote that is called the Alkaron. In which book is written, among other things, that the Good shall go to Paradise and the Evil to Hell. And if a man is asked what Paradise means, he says Paradise is a place of delights where man shall find all manner of fruits in all seasons and rivers rnnning of milk and honey and of wine and of sweet water; and they shall have fair houses and noble made of precions stones and of gold and of silver; and that every mau shall have 80 wives, all maidens; and he shall have ado with them every day, and he shall find them always maidens. . . . Mahomet loved well a good hermit, and so often went Mahomet to this hermit that all his men were wroth; for he would gladly hear this hermit preach and keep his men awake all night. Therefore his men thought to put this hermit to death; and so it befell upon a night that Mahomet was drunken of good wine, that he fell asleep; and his men took his sword out of its sheath while he slept, and therewith they slew this hermit and put the sword all bloody in the sheath again. And at morrow when he found the hermit dead, he was full sorry and wroth and would have done his men to death; but they all with one accord said that he himself had slain him while he was drunken and showed him his sword all bloody. And he trowed they had spoken truly. And then he cursed the wine and all those that drink it. And therefore Saracens that be devout drink no wine — but some drink it privily.

At the hill of Garasoun, in Deluze, Egypt, where Abraham would have sacrificed his son Isaac

Of the Land of Job

The land of Job is a full fair country, plenteous of all good things. There be hills where men get great plenty of Manna, in greater abnndance than in any other country. This Manna is called Bread of Angels; and it is a white thing that is full sweet and right delicious, and more sweet than honey or sugar; and it cometh of the dew of Heaven that falleth upon the grass in that country; and it congeleth

and becometh all white and swete; and men putteth it in medecines for rich men to make the stomach relax, and to purge evil blood, for it cleanseth the blood and putteth out melancholy.

Of the Land of the Amazons

Beside the land of Caldea is the land of the Amazons. And in the realm is all women. For some time there was a king in that country and men married. But it so befell that the king had war; the which king was slain and all the good blood of his realm. And when the queen and all the other noble ladies saw that they were widows, and that all the royal blood was lost, they armed themselves, and, as witless creatures, they slayed all the men of the country that were left. For they would that all the women were widows as the queen and they were.

From that time forwards they never would suffer man to dwell among them longer than 7 days and 7 nights; nor that any ehild that were male should dwell among them longer than he were weaned. If the child be a female they do away with one of its breasts with a hot iron: and if it be of a woman of great lineage they do away with the left breast that it may better bear a shield: and if it be of a woman of simple blood, they do away with the right breast so that it may shoot a bow.

In Ethiopia

In that eountry is a well that in the day is so cold that no man may drink therefrom: and in the night it is so hot that no man may suffer his hand therein. In Ethiopia be many kinds of folk. In that country be folk that have but one foot; aud they go so fast it is a marvel; and the foot is so large that it shadoweth all the body against the sun when they would lie and rest them. In Ethiopia when the children be young and little, they all be yellow; and they wax of age, that yellowness turneth to be all black.

In India — of the Well that changes its odor every hour of the day

Above the city of Polombe is a great mountain, and at the foot of the mount is a fair well and great that hath the odor and taste of all the spices; and at every hour the odor changeth and so also the taste. And whoso drinketh 3 times, without eating, of that water, he is free of all manner of siekness and will always be young. I have drunken 3 or 4 times, and methinketh, I am the better for it. Some men call it the Well of Youth, and say that the well cometh out of Paradise, and therefore it is of sueh virtue.

Where the father eateth the son, or the son the father, the husband the wife, or the wife the husband

In this isle it so befalleth, that if the father or the mother or father of any of their friends be sick, anon the son goeth to the priest and asks the idol if his father, mother, or friend is like to die of that sickness or not. And if the devil that is within the idol answer the sick one shall live, they keep him well; and if he say that he shall die, then the priest goeth with the son and with the wife of him that is sick and they put their hands upon his mouth, and stop his breath and so slay him. And after that they chop the body all in small pieces, and pray all their friends to come eat of him that is dead; and they send for all the minstrels of their countryside and make a solemn feast. And all that be of his kin, or claim to be his friends, and they come not to that feast, then are they shamed and outcast forever.

Here in this land they eat man's flesh to deliver the man of pain. For if the worms of the earth eat him, then shall the soul suffer great pain. When the flesh is thin, then say the friends they have done great sin to have let him linger so long and to suffer so much pain. And when they find the flesh fat, they say it is a good thing to have sent him so soon to Paradise; and that they have not long suffered him to endure in pain.

Of Folk Marvelously Disfigured

In one isle are folk whose stature is of a cursed kind, that have no heads; and their eyes be in their shoulders. And in another isle be folk that hath lips so great that when they sleep in the sun, they can cover all their faces with their lips. And in another isle be folk with great ears and long that hangeth down to their knees. And when one entereth again into the land of the great Khan there be folk of little stature but three span long. They marry when they be one half year of age and beget children. And they live only but 6 or 7 years at the most. And he that lives 8 years men hold him right passing old.

Of the Great Khan of Cathay

In the city of Caydon in Cathay is the seat of the great Khan in a marvelous great palace, the walls of which are two miles around; and within the walls it is full of other palaces. And in the garden of the great palace is a great hill, upon which there is another palace. And all about the palace and the hill be many trees bearing many different fruits. And all about the hill be dykes both great and deep: and beside them be great vineyards, and in these vineyards so many wild geese and ducks and swans and herons, that they be without number. And all about these dykes and vineyards is the great gardeu, full of wild beasts; so that when the great Khan will have sport to take any of the beasts or the fowls, he will not chase them but shoot them from his windows without leaving his room.

The Isle of Strange Beasts

There be an isle that hath many beasts. There be in that country many camels that is a beast as little as a goat, and liveth by the air alone and eateth nought nor drinketh nought at any time. And he changeth his color many times, all manner of colors that he list, save only red and white. There be also in that country passing great serpents, some 120 feet long, and they also of diverse colors. And there be others that have crests upon their heads and they go upright upon their feet, and they keep their jaws open from which always they drop venom. And there be wild swine as big as oxen in our country and unicorns as great as wild swine here. And there be lions all white, and a beast that is greater than a horse that men call Odenthos; and they have a black head and 3 long horns trenchant in the front and sharp as a sword; and the body is slender. And he is a full felonous beast, and he chaseth and slayeth the elephant.

Return Home

I John Maundeville Knight above (although I be unworthy), departed from our countries and passed over the sea the year of grace 1322, have passed through many lands and many isles and many countries, and searched full many strange places and been in many a right good honourable company, and at many a fair deed of arms (albeit I did none myself from mine insufficiency) now am I come home (in spite of myself) to rest: for gout and arthritis distract me. Thus taking solace in my wretched rest, recording the time passed, I have put these things in this book, the year of grace 1356 in the 34th year that I departed from our countries.

WORD CHARADES

(For answers turn to page 96)

1

My second wakes when by my first
The Birds are set a-singing,
And with the echo of their joy
The forest deep is ringing.

My whole, a dainty fragile thing,
Braved wind and wave and tide,
And now enshrined in history's page
It lives, a nation's pride.

St. Nicholas Magazine

(The following Charades are all taken from At the Sign of the Sphinx by Carolyn Wells)

2

On either side the river lie
Long fields of barley and of rye;
My first blows free beneath the sky,
And through the field the road runs by
To many-towered Camelot.

There she weaves by night and day
A magic web of colors gay;
She dare not from my second stray,
The Lady of Shalott.

The gemmy briddle glittered free,
Like to some branch to stars we see;
Perhaps is was my whole to thee,
O bold Sir Lancelot!

3

Demure, modest, and meek,
In my whole she rode by,
With my first on her cheek,
And a smile in her eye.
And when she had passed,
I said, "She's a dear,
And her critic my last
To say she is queer."

4

Beneath the sharp axe Queen Mary knelt,
And often its blows my first has dealt
To kings and queens and chickens.

The hour for my whole to each must come,
My first of my second is thought by some
The finest work of Dickens.

5

Though hardly a path of glory,
My first leads to the grave;
Unless by giving my second
Both life and health we save.

My third is of very small value,
The favorite haunt of a mouse:
My whole you will find in the kitchen
Of every well-ordered house.

6

Sweet Priscilla at my side
Gayly o'er the waves we ride.
As we banter on the yacht,
She is happy, I am not;
For beneath my first, her eyes
Frown and smile and tantalize.
Though she rules my very soul,
She is governed by my whole.
If she'd only marry me,
How contented I would be;
If I heard our wedding-bell,
If my second on us fell,
Gayly then away I'd ride
Sweet Priscilla at my side.

7

My first's a sum of money that I have never seen
Though I have earned it often and spent it too, I ween.

When money is my second 'tis often hard to get;
My second is a pretty sight, although it's rather wet.

My whole's a sad misfortune caused by a summer rain;
It makes much trouble in my first, and goes against the grain.

8

To win my first men struggle all their lives,
Yet willingly present it to their wives.

The wise man no great fortune has amassed.
But lives his life contented with my last.

An infant is my whole at early age:
And Lot's wife was my whole on Scripture's page.

Query

I read in one of your numbers an article on the amount of hard drink consumed at the installation of a pastor in the early days. Now I can not find it although I have looked back many years. Can you help me?

Warner M. Van Norden
7 West 57 St.
New York City.

Ed. Note: We have searched this Almanac's files for such a story as Mr. Van Norden suggests but we are unable to find anything at all like it. If any reader knows about such a shocking proceeding, please write him.

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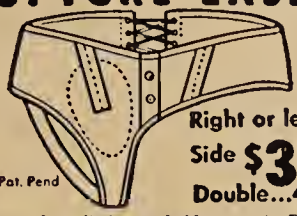

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From St. Nicholas Magazine

(Answers to appear on page 96)

1. Double Acrostic

1. The subject of your thoughts I tell.
2. A word that speaks a long farewell.
3. A native of a distant land.
4. I mean to seize with sudden hand.
5. And I to take with trust the true.
6. In Italy, my home, I grew.
7. Me, before all, should men pursue.

Initials

Never found on land or sea;
But in mid-air look for me.

Finals

Piercing darkness, golden bright,
Giving life and shedding light.

2. Enigma

I am composed of thirty-eight letters: My 30, 4, 21, 5, 24, 38 is a city in the United States. My 1, 22, 9 is a domestic animal. My 6, 34, 19, 13 is the name of a month. My 14, 17, 31 is an insect. My 6, 7, 28, 33, 35, 21 are employed in court. My 29, 18, 20, 12, 5 is one of the five senses. My 23, 36, 28, 25, 32, 27, 18, 20, 12, 11 is a number. My 26, 33, 35, 29, 10 is a useful animal. My 30, 2, 37 is a weapon used by the Indians. My 15, 3, 8, 34, 16 is to endow. My whole is an old saying.

3. Riddle

Take the name of a useful animal, insert a consonant, and find the name of a celebrated mountain; then insert a vowel, and find a confection.

4. Geographical Acrostic

1. A famous watering-place. 2. A fresh water lake in Central Africa that Livingstone investigated. 3. One of the oldest cities in Asia. 4. A large island in the Northern Ocean, famous for its boiling springs and subterranean fires. 5. An empire that has four hundred millions of inhabitants and the Oldest government now in existence. 6. A range of mountains whose tops are covered with perpetual snow, and the country all around covered with perpetual verdure. 7. A river and gulf of Siberia. 8. A frozen northern country. 9. A land you and I love. 10. The country where Scott and Burns were born. The initials of the above will give you the name of one whom we hope you are glad to see.

Beheaded Rhymes

Fill the first blank with a certain word; the second, by the same word minus its first letter; the third, by original word minus first two letters; and in like manner the lines of the second stanza:

I

The princess who once tried to....
Her fair hand wounded with the....
A magic sleep, she then fell....
And thus for years she lay;

II

Until, to break the slumber....
Ere her sweet soul by it were....
A noble knight, by trne love....
Kissed all the spell away.

Cross-Word

My first is in crow, but not in hawk;
My second is in landing, but not in dock;
My third is in horse, and also in mule;
My fourth is in govern, but not in rule;
My fifth is in patch, but not in mend;
My sixth is in tear but not in rend;
My seventh is in trouble, but not in grief;
My eighth is in robber, but not in thief;
My ninth is in saw, but not in seen;
My whole is the name of a wicked queen.

All Named Smith?

Every man has two parents, four grandparents, eight great grandparents, sixteen great-great grandparents, etc. If we call one generation 30 years and carry out the above calculation to the Norman Conquest each person in England must have had 32 million ancestors. Carry the calculation farther back and soon you will pass beyond any population which ever existed on the globe. A thousand years from now brings the number up to 1,024,000,000.

Here's to You!

The drinking of healths originated during the Danish occupation of Britian. The Danes frequently stabbed Englishmen while in the act of drinking. It finally became necessary for the English, in view of the constant repetition of this dastardly mode of assasination to enter into compact by these mutual pledges of security for each other's health and preservation. Hence the custom of pledging each other's health. Next time you toast a friend, remind him then it is just a promise you won't stab him until later!

IF YOU

GET UP NIGHTS

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If you get up many times during the night to go to the bathroom, you may have non-organic Kidney Trouble. Some of the symptoms, in addition to getting up nights are, **bladder weakness, burning passage, leg pains, circles under eyes, loss of pep, nervousness, headaches, dizziness.** You may need a reliable, stimulantdiuretic like KED-NEX PILLS to help Nature remove irritating excess acids, poisonous wastes and certain germs. This cleansing flushing action helps alleviate many pains, aches, soreness, stiffness—helps reduce night and day calls—allows you to enjoy and benefit by restful sleep. So order KED-NEX PILLS today, **but send no money.** Pay postman $2 plus postage and C.O.D. charges. If you send cash with order we pay all postal charges. MONEY BACK IF NOT HELPED. YOU can order KED-NEX PILLS with confidence for if you are not helped by the very first box we'll give you back your money. Rush name and address NOW.

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Flat and oval reeds, $1.75 per pound. All postpaid.

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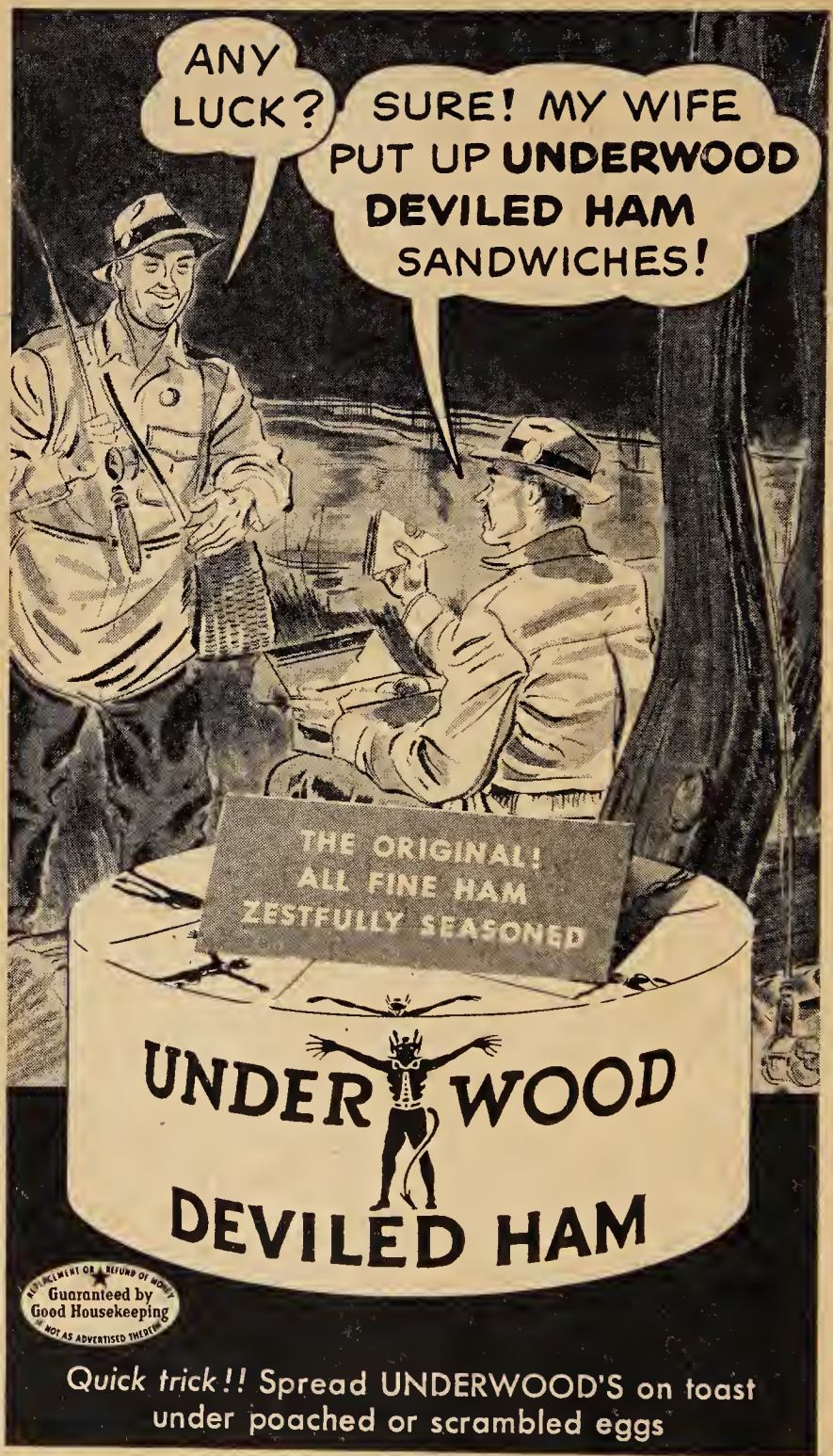

ANY LUCK?
SURE! MY WIFE PUT UP UNDERWOOD DEVILED HAM SANDWICHES!
THE ORIGINAL! ALL FINE HAM ZESTFULLY SEASONED
UNDERWOOD
DEVILED HAM
SATISFACTION OR REFUND OF MONEY
Guaranteed by Good Housekeeping
NOT AS ADVERTISED THEREIN
Quick trick!! Spread UNDERWOOD'S on toast under poached or scrambled eggs

FARM FARE FOR CITY LIVING

MAINE CLAM CHOWDER

¼ pound salt pork
2 medium sized onions
1½ quarts fresh clam broth
2 medium size potatoes
1 pint fresh clams
½ pint milk
½ pint cream
6 ounces butter
salt and pepper

Dice and saute the salt pork. Chop the onions and add to the salt pork and continue cooking for about five more minutes. Add the clam broth . . . then the cubed potatoes and cook for about 20 minutes longer. Add the chopped clams and cook for five more minutes . . . then add milk and cream and bring to a boil. Lastly add butter and salt and pepper to taste.

PECAN MUFFINS

2 cups flour
3 teaspoons baking powder
½ teas. nutmeg
½ teas. cinnamon
¼ teas. ground clove
¼ cup sugar
½ teas. salt
½ cup pecans, chopped
1 cup milk
1 beaten egg
¼ cup melted shortening

Sift all the dry ingredients together. Stir in the nuts. Combine the milk and egg and stir into the dry mixture. Add the melted shortening and pour into greased muffin tins and bake in a 425° F. oven for about 25 minutes.

BOSTON COOKIES

8 teaspoons butter
8 teaspoons lard
1 cup sugar
1 egg, well beaten
¼ cup milk
2 cups flour
2 teaspoons baking powder
¼ teas. salt
2 teaspoons vanilla

Cream the butter and the lard together. Add the sugar, egg and milk to creamed mixture. Sift and add the dry ingredients. Add vanilla. Roll thin and cut with large round cutter. Bake in a 375° F. oven for about six minutes.

DURGIN PARK BLUEBERRY CAKE

¾ cup sugar
2 beaten eggs
3 cups flour
3 teas. baking powder
¾ teas. salt
1¼ cups blueberries that have been washed and drained
I T. melted butter
1½ cups milk

Mix the sugar with the beaten eggs. Sift the flour, the baking powder and salt and add. Stir in the blueberries, melted butter and milk. Beat just enough to mix. Bake in a 400° F. oven for about thirty minutes.

PARKER HOUSE TRIPE

Cut fresh tripe in four inch squares. Season to taste with salt and pepper and sprinkle with flour, then dip into pure olive oil and sprinkle with bread crumbs. Broil slowly for two or three minutes on each side or until the crumbs are brown. Serve with

A FEAST

FOR FOLKS WHO KNOW

HAVE YOU KNOWN the savory aroma that filled the air of an olden-time New England kitchen when a pot of day-long-baked beans came sizzling from the oven?

Then it's for *you* that B & M Beans are baked—*really baked* in down-east ovens *all day long*, from the traditional New England pork-and-molasses recipe.

The only difference—you need merely re-heat B & M Baked Beans and serve them.

MUSTARD SAUCE

Saute 1 T. minced onion in 3 T. butter. Add 2 T. cider vinegar and simmer for five minutes. Moisten 2 Teaspoons dry mnstard with 1 T. water and blend. Then add 1 cup brown gravy. Allow to simmer for a few minutes and serve very hot.

NANTUCKET CORN PUDDING

1 egg
1 cup milk
½ teaspoon salt
1 teaspoon sugar
½ T. melted butter
Few grains of cayenne
1 cup cooked corn

Beat the eggs; add the milk, seasonings, butter and corn. Turn the mixture into a buttered baking dish. Bake in a moderate or 350° F. oven for about 40 minutes or until the mixture will not adhere to a silver knife when inserted in the center. Serve as a main course dish.

HOUSEHOLD HINTS

Stain Removal: Always start with an ample supply of cleaning pads made of absorbent cotton materials and cleaning cloths (when possible) made of the same material as the garment to be cleansed. Treat all stains as soon as possible . . . this prevents setting! **Always test the cleaning agent on a small piece of the material found on inside seams or if necessary, at the hemline.**

Chewing Gum: Scrape off as much as possible. Dampen cleaning cloth with carbon tetrachloride and apply with a circnlar rnbbing motion.

Coffee: Soak the stain immediately in cold water, wash in mild soapsuds and rinse thoronghly. If the fabric is not washable sponge with cold water, allow to dry . . . if stain still remains use non-inflammable cleaning fluid.

Egg: Use soap and cold water. Hot water has a tendency to harden the egg hence may set the stain.

Fruit Stains: Act immediately. Use cold water. If the garment is washable soak in cold water and then sponge with bleach water. If the garment is not washable sponge with cold water, or soak stained portion in cool water and then apply a few drops of white vinegar.

Grass: Rnb with heavy suds, using a soft brush if fabric is washable. If not, sponge with alcohol if fabric will stand the test.

Greasy Food: Scrape off excess with spatula; sponge with carbon tetrachloride and launder.

Grease: (Antomobile, Road Oil, etc.) Remove excess with dull knife. Rub lard into the spot nntil no more grease is picked np. Scrape off and launder. If fabric is not washable sponge with carbon tetrachloride or take as quickly as possible to an expert cleanser.

Indelible Pencil: If fabric is washable and will pass the test then soak in alcohol. If stain remains then stretch the fabric over a bowl filled with hot water and apply bleach water.

Iodine: If washable fabric is to be treated sponge with a dilute solution of ammonia. (Six drops of ammonium hydroxide in ½ measnring cup of water.) If on heavier fabric apply a paste of raw starch and warm water. Allow to dry and brush off. Repeat if necessary.

Iron Rust: Stretch the fabric over a bowl of steaming hot water. Moisten the stains with clear water and apply lemon juice with a medicine dropper. Rinse and repeat if necessary. Or sprinkle stain with salt, moisten with lemon juice and expose to bright snnlight. If fabric is not washable take to expert cleaner.

Lipstick or Rouge: Sponge with carbon tetrachloride.

Mercurochrome: Wash out as quickly as possible with clear water. If this does not work take to a professional cleaner as this is one of the most difficult stains to remove.

Mildew: Soak in a solution of bleach water. Sometimes stains of this nature can be removed by washing and then allowed to dry in the sun.

Mud: Allow to dry thoroughly. If stain remains sponge with alcohol and launder.

Nail Polish: If the stain is on polish a regular polish remover may be applied. Do not use this method on rayon or silk.

Perspiration: Lannder promptly. If the color has changed hold the stain over a bottle of ammoninm hydroxide. If the color has gone nothing can be done.

Rich, flavory, fresh White House Coffee vacuum packed in air-tight tins and jars, or buy it in the triple-sealed package for economy.

Save the box tops. Write for our list of available merchandise premiums.

WHITE HOUSE COFFEE

Box 1871 BOSTON, (5) MASS.

Salad Dressing: Sponge with cold water and dry. Remove remaining grease with carbon tetrachloride. If a rayon material sponge with carbon tetrachloride.

Scorch: Moisten stain with clear water and place in the direct sun light. Repeat if necessary. If fabric is not washable a good cleanser is your best bet.

Water Spots: With such fabrics as velveteens, velvets or corduroys water spots can be removed by steaming garment in a closed bathroom with a tub filled with steaming hot water. (A wonderful way of banishing wrinkles from clothes when traveling.)

HOUSEHOLD HELPS

To Read Electric Light Meters: The pointer on the extreme right measures the units in kilowatt hours: the one to the left of it measures units in tens of kilowatt hours . . . the next measures in hundreds and the pointer on the far left, thousands. Read your meter from left to right. (If any pointer lies between two figures use the smaller number.)

To Keep Clothes from Freezing in the Winter: Simply add a large handful of table salt to the rinse water.

To Clean Neckties: Place in a glass jar filled with cleaning fluid. Put on jar rubber, screw cap on tightly and shake jar until dirt is loosened.

Clotheslines: Before using new one boil for thirty minutes. This minimizes stretching and tangling. To clean boil again in a strong salt solution or wrap the line around a washboard and scrub with brush and soap.

To Water Plants while away: Use a special wick made for this purpose or a home made one that you have made from cheesecloth or burlap. Place this wick in the hole in the bottom of the container. The rest of the watering wick rests in water in a partially covered container that supports the pot. The wick works like a lamp wick that carries oil to the flame.

Fly Catcher: Flies like string for a roost. Dip the string in a strong solution of insecticide that is strong with DDT. Just hang this string or several from the ceiling or from a light cord. Remember . . . it takes a little time for the insecticide to take effect but you'll notice that there are fewer flies around.

WEDDING ANNIVERSARIES

1. Paper
2. Cotton
3. Leather
4. Books or Flowers
5. Wood
6. Iron
7. Copper and Brass
8. Bronze and Electrical gadgets
9. Pottery
10. Tin and Aluminum
11. Steel
12. Silk and linen
13. Lace
14. Ivory
15. Crystal
25. Silver
30. Pearl
35. Coral
40. Ruby
45. Sapphire
50. Gold
55. Emerald
60. Platinum
75. Diamond

POMANDER BALL

Make from apples, oranges or lemons. Select firm fruit and stick with whole cloves covering the entire surface. Hang in a clothes closet or place in a dresser drawer.

POTPOURRI

10 cups dried rose petals
3 ounces orris root
½ ounce each: Ground cloves, Cinnamon, Allspice

Mix the ingredients thoroughly and allow them to mellow in an earthenware crock for several weeks before transferring to smaller jars. This is the potpourri base and you may add herbs, spices or dried blossoms of your own preference. (The rose petals should be picked just after the dew has dried off them. Spread them on a window screen. Dry these petals in a cool airy room, never in the direct sunlight. When dried, rub them into a powder and then blend with the other ingredients.)

Tables of Measures

Apothecaries

1 scruple=20 grains
1 dram=3 scruples
1 ounce=8 drams
1 pound=12 ounces

Avoirdupois

1 pound=16 ounces
1 hundredweight=100 pounds
1 ton=20 hundredweight=2000 pounds
1 long ton=2240 pounds

Cubic Measure

1 cubic foot=1728 cubic inches
1 cubic yard=27 cu. feet
1 register ton (shipping measure)=100 cubic feet
1 U. S. shipping ton=40 cu. ft.
1 cord=128 cubic feet
1 U. S. liquid gallon=4 quarts=231 cubic inches
1 imperial gal.=1.20 U. S. gals.=0.16 cubic feet
1 board foot=144 cubic inches

Dry Measure

2 pints .....=1 quart (qt.)
4 quarts .....=1 gallon (gal.)
2 gallons or 8 quarts .....=1 peck
4 pecks .....=1 struck bushel

Household Measures

120 drops water=1 teaspoon
60 drops thick fluid=1 teaspoon
2 teaspoons=1 dessertspoon
3 teaspoons=1 tablespoon
16 tablespoons=1 cup
1 cup=½ pt.
1 cup water=½ lb.
4 tablespoons flour=1 oz.
2 tablespoons butter=1 oz.
3 teaspoons soda=½ oz.
4 teaspoons baking powder=½ oz.
2 cups granulated sugar=1 lb.
2½ cups confectioners' sugar=1 lb.
2½ cups wheat flour=1 lb.
3½ cups whole wheat flour=1 lb.
2½ cups buckwheat flour=1 lb.
5⅓ cups coffee=1 lb.
6½ cups tea=1 lb.
2 cups lard=1 lb.
2 cups butter=1 lb.
2 cups corn meal=1 lb.
2 cups powdered sugar=1 lb.
2 cups brown sugar=1 lb.
2 cups raisins=1 lb.
2 cups currants=1 lb.
9 eggs=1 lb.

Linear Measure

1 foot=12 inches
1 yard=3 feet
1 rod=5½ yards=16½ feet
1 mile=320 rods=1760 yards=5280 feet
1 nautical mile=6080 feet
1 knot=1 nautical mile per hour
1 furlong=⅛ mile=660 feet=220 yards
1 league=3 miles=24 furlongs
1 fathom=2 yards=6 feet
1 chain=100 links=22 yards
1 link=7.92 inches
1 hand=4 inches
1 span=9 inches

Liquid Measure

4 gills=1 pint (O.)
2 pints=1 quart (qt.)
4 quarts=1 gallon (gal.)
63 gallons=1 hogshead (hhd.)
2 hogsheads=1 pipe or butt
2 pipes=1 tun

Square Measure

1 square foot=144 square inches
1 sq. yard=9 sq. feet
1 sq. rod=30¼ sq. yards=272¼ sq. feet
1 acre=160 sq. rods=43560 sq. ft.
1 sq. mile=640 acres=102400 sq. rods
1 sq. rod=625 square links
1 sq. chain=16 square rods
1 acre=10 square chains

Troy

(Used in weighing gold, silver, jewels)

1 pennyweight=24 grains
1 ounce=20 pennyweight
1 pound=12 ounces

Metric

1 inch=2.54 centimeters
1 meter=39.37 inches
1 yard=0.914 meters
1 mile=1609 meters=1.61 kilometers
1 sq. inch=6.45 sq. cm.
1 sq. yard=0.84 sq. m.
1 sq. mile=2.59 sq. km.
1 acre=0.40 hektars
1 cu. yard=0.76 cubic meters
1 cu. meter=1.31 cubic yards
1 liter=1.06 U. S. liquid quarts
1 hektoliter=100 liters=26.42 U. S. liquid gallons
1 U. S. liquid quart=0.94 liters
1 U. S. liquid gallon=3.76 liters
1 metric ton=1000 kilograms
1 kilogram=2.20 pounds
1 pound avoirdupois=0.45 kilograms

Rat Control

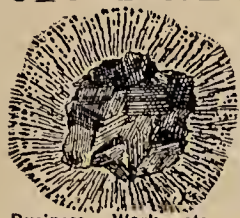
The total food consumed by rats costs us $400,000,000 each year. In addition, rats cause damage to houses of another $600,000,000.

It is no disgrace to have rats—it is to keep them. The female rat has from 18 to 98 offspring each year. Best time for a poison campaign is Fall. To catch a rat, appeal to its thirst, hunger, sex, or curiosity. Remember it can reach up to 18 inches, jump up 3 feet, and out-over 15. They'll burrrow down 5 ft., or climb a vertical wall or rusty 3 inch pipe.

To do away with them, keep all garbage in metal containers with close fitting tops. Abolish nests & hiding places. Ratproof your buildings with screen doors—also screen all windows, vents, transoms, exhaust openings, basement drains, any openings in foundations or roofs, chimneys, ventilators.

Red squill baits or traps are best for ridding the house of the rat. Use traps of course when there are pets or children around or you don't want unseemly odors.

$--BELIEVE IN LUCK?--$



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Catalog Free

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Protect valuable tools from thieves and tool borrowers. Etcher works off of car battery or A.C. current. Burns your name, any design on tools, instruments, silverware, any metal. Simple as writing with pencil. $1.00 Postpaid. Money back if not satisfied.

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by Rad LaFarge: Garden State Square Dances $1; 16 Singing Calls 50c; How ta Square Dance 25c; Kissin' Games and Smoatch Dances 25c; Quadrilles $1. ROSIN THE BOW (Square dance magazine) 6 issues $1.

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LYDIA FOOTE

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GESTATION AND REPRODUCTION TABLE

	Proper age for first mating	Period of power of reproduction in years	No. of females for one male	Period of gestation and incubation		
				Shortest days	Mean days	Longest days
Mare	3 yrs.	10 to 12		325	336	352
Stallion	4 "	12 to 15	20 to 30			
Cow	18-24 mos.	10 to 14		235	282	300
Bull	12-18 "	10 to 12	30 to 40			
Ewe	18 "	6		145	147	152
Ram	12-14 "	7	35 to 45			
Sow	9 "	6		110	114	120
Boar	9 "	6	8 to 12			
She Goat	18 "	6		147	151	155
He Goat	18 "	5	20 to 30			
Ass	3 yrs.	10 to 12		356	367	378
Jack	4 "	12 to 15	20 to 30			
She Buffalo	18-24 mos.	8		309	315	325
Bitch	16-18 "	8		58	63	67
Dog	12-16 "	8				
She Cat	12 mos.	6		58	60	64
He Cat	12 "	10	6 to 8			
Doe Rabbit	6 "	5 to 6		25	30	35
Buck Rabbit	6 "	5 to 6	30			
Cock	6 "	5 to 6	12 to 18			
Hen		5 to 6		19	21	24
Turkey				24	26	30
Duck				28	30	32
Goose				27	30	33
Pigeon				16	18	20
Pea Hen				25	28	30
Guinea Hen				20	23	25
Swan				40	42	45
Hen or Duck's Eggs				22	30	34

REPRODUCTIVE CYCLE IN FARM ANIMALS

Courtesy F. N. Andrews — Purdue University

	Reoccurs if not Bred (Days)	Estrual Cycle incl. Heat Period (Days)		In Heat for		Usual Time of Ovulation
		Ave.	Range	Ave.	Range	
Mare	16	21	10–37	5–6 days	1–37 days	24–48 hours before end of estrus
Sow	19	21	18–24	2–3 days	1–5 days	Usually second day of estrus
Ewe	15	16	14–20	30 hours	20–42 hours	1 hour before end of estrus
Goat	19	20	12–25	36–48 hours	20–80 hours	Near end of estrus
Cow	20	19–20	16–24	16–20 hours	8–30 hours	14 hours after end of estrus
Bitch	180	24		21–28 days		
Cat	120			3–12 days		

SPEEDS RUG MAKING

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Braid-Away is an unbelievably useful holder that saves time, fingers and labor in braiding rugs, ripping, folding, hemming, fringing, untangling yarn, etc. It holds any material at the correct tension — while you use BOTH hands for faster, better, neater work. Braid-Away fastens on edge of sewing table. Attractive, sturdy, simple, nothing to adjust or get out of order; cannot injure the most delicate material. If you want easier hand sewing, firm flat uniform braids, you'll be delighted with a Braid-Away. Mailed postpaid on receipt of $1.50. Satisfaction guaranteed.

N. R. PLAYDON
32 Elm Street Rockville, Conn.

$1.50

SPEEDS UP SEWING

Dept. Store Buyers Please Note

Summer clothes, we understand go on sale in most of our American department stores during the last week in March and first week of April. Now the weather forecast of The Old Farmer's Almanac—see page 17 and 19 for these two weeks can not by any stretch of the imagination be taken as authoritative or final. So we do not want you buyers to become unduly alarmed by the forecast Abe Weatherwise has made for these two weeks—namely, "Rains ice cubes"—and "Temperature drop might kill the apple crop." And in any event, if you buyers knew the weather of those two weeks was to be cold and rainy, we doubt very much whether you would reduce your clothing orders very much. However, we do know that a good many buyers to keep this forecast at hand and are guided by its long range look at the weather. That which we suggest is that you remember that it could be cold and rainy these two weeks —and then let the boss decide how much of a gamble he is willing to take on putting in heavy stocks.

SAVE FUEL

with THERMCAPS (formerly Wigwam Flue Doctor)
STOPS DOWN DRAFT — CREOSOTE. mailable.

***Write* WIGWAM FLUE TOP COMPANY**
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Open Everyday Till 9:00 P.M.

WARTS GO! TRAW, an amazing liquid, quickly—easily removes ugly embarrassing warts—leaves skin smooth and beautiful. No pain—horny growths dry up. Results guaranteed or money back. Only $1.00. We mail promptly. Write today. TRAW, Dept. OF2, Martin Ave., Clifton, N. J.

Some View

Chuck Harrington, states the Mount Washington Observatory Bulletin of Feb. 1950, a co-worker on Mount Washington, accompanied an icing technician from Boston to Great Falls, Montana. From there the pair angled across British Columbia—thence to Fairbanks and Juneau.

"Shortly after passing Mt. McKinley"—the icing technician reports "we had the uncanny experience of a simultaneous view—a sunset in the west and a sunrise in the east."

Origin of Prayer

Mrs. Harry E. Felton of Worcester, Mass. informs us that the prayer which was used on page 97 of last year's edition of the **Almanac** was written by Dr. Reinhold Niebuhr, Union Theological Seminary, New York City. He wrote it in 1932 as the ending to a longer prayer. In 1934 his friend, Dr. Howard Robbins asked permission to use that part of the prayer in a compilation he was making at the time and which appeared later as a book of prayers.

Aurora Borealis

H. P. Rowell of So. Lancaster, Mass. writes us that he does not believe the Aurora Borealis was seen in this world before 1564. He believes this fact places the Aurora among the other signs which the Lord said would be in the heavens as a sign of His second coming.

"There shall be signs in the heavens" (Dark Day of May 19, 1780, moon turned to blood the same night,—Falling of stars Nov. 13, 1833) "and on earth distress of nation—men's hearts failing them for fear, for looking after those things that are coming on earth."

Mr. Rowell suggests the reading of Joel and Nahum —as well as the November 1947 issue of the American Geographic Magazine.

Mr. Rowell wants to know why Henry Hudson and his men, in their efforts to locate a passage to India in the sections of our planet where we now see the Aurora, did not see the Aurora.

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ARTIFICIAL FLOWERS
AT HOME! IN SPARE TIME!

Paper "MUMS" for Vases

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BOTH KITS $1.79

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WAS DEAFened

NOW HEARS CLOCK TICK

Mr. Beech, Newark, N. J. writes:

"Before using Orotune Ear Drops I was so deafened that I could not hear the clock tick. After using Orotune I can now hear the clock tick with both ears." Thousands now hard-of-hearing would hear clearly and distinctly again, and also get relief from buzzing, ringing head noises, clogged up feeling in ears, if impacted wax that blocks ear canals and presses on sensitive ear drums were removed. Try Orotune Ear Drops as directed. They are SAFE and contain an ingredient especially recommended for this purpose. SEND NO MONEY. Pay Postman $2 plus postage and C.O.D. charges. If you enclose $2 with order, we pay all postage. ZOAK, INC., 559 West 146 St., Dept. 65-B, New York, 31, N. Y.

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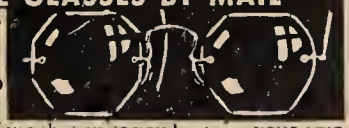
Send No Money



Select the lens that suits you best, in your own home, from our 14 lens testers with their combinations. **Write For Free Catalog**

ADVANCE SPECTACLE CO.
537 S. Dearborn - Chicago 5, Ill. Dept. OF-9

GRAY FADED HAIR

Now you can shampoo and color your hair the same time with SHAMPO-KOLOR, any shade. No dyed look, permits permanent. Simple, caution: use only as directed on label.—Most lasting. Write for Free Booklet.

VALLIGNY PRODUCTS, INC.
Dept. 72-T, 254 West 31st Street, New York 1, N. Y.

ANSWERS TO OLD FASHIONED PUZZLES

(See page 82)

1. Double Acrostic—Rainbow, Sunbeam.—Riddles, Adieu, Indian, Nab, Believe, Opera, Wisdom.
2. Enigma.—Do not judge the feelings of others by your own.
3. Riddle.—Camel, Carmel, Caramel.
4. Geographical Acrostic.—St. Nocholas.—Saratoga, Tanganika, Nanking, Iceland, China, Himalaya, Obi, Lapland, America, Scotland.
5. Deheaded Rhymes.—Spin, pin, in. Charmed, harmed, armed.
6. Cross-Word.—Cleopatra.

1950 CYPHER CONTEST

None of the many solutions submitted to us came anywhere near solving the cypher in the 1950 Old Farmer's Almanac. The number was 1—1,1314. 1 stands for page one of the title page. The dash is a minus sign; hence, the cypher referred to Page one minus 1 or the inside front cover or the advertisement of The John Hancock Mutual Life Insurance Company—lines 13 and 14. Because this puzzle cypher was not solved, no prize was awarded. Instead, we offer double last year's prizes; namely, first prize, fifty dollars, second prize, thirty dollars, third prize, ten dollars. The contest this year has No. 112-34. This number refers to two lines of type on a certain ad page of this edition. You are to submit the best two line rhyme you can think of in not over 13 words to go with these two lines. Yankee Magazine staff is the sole judge. Entries remain the property of Yankee, Inc. and none will be returned. Winners will be announced in the 1952 Old Farmer's Almanac.

RHEUMATIC PAINS
MAKE THIS TEST FREE

If you'll just send me your name and address, I'll mail you ABSOLUTELY FREE a generous trial test supply of the NEW IMPROVED CASE COMBINATION METHOD with full instructions for the transient and palliative relief of those annoying aches and pains commonly associated with and symptomatic of RHEUMATISM, SCIATICA, ARTHRITIS and NEURALGIA conditions. No matter how long you have had those pains and aches you owe it to yourself and your dear ones to try my new Improved Case Combination Method. IT DOESN'T COST YOU ONE PENNY TO TRY IT, SO SEND YOUR NAME AND ADDRESS TODAY TO

Paul Case, Dept. OFC, Brockton 64, Mass.

Suffer Varicose LEG SORES?

IF you suffer pain and misery of Varicose Ulcers, or Open Leg Sores, send away at once for FREE Booklet "THE LIEPE METHODS FOR HOME USE." Tells all about this 40-year-old method, praised and endorsed by thousands. **Liepe Methods, Dept. 402 3250 N. Green Bay Ave., Milwaukee, Wisconsin.**

GIFT SUGGESTION!

For that new born baby of Uncle Jim or Aunt Sue—or even for Gramp—or Ma—a Life subscription to this Almanac would be much appreciated. Send Five Dollars. Yankee, Inc., Dublin, N.H.

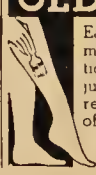
ANSWERS TO CHARADES

(See page 80)

1. May-flower
2. Heirloom.
3. Bloomers.
4. Deathknell.
5. Coffeemill.
6. Caprice.
7. Mildew.
8. Nameless.

FEEL OLD? KNEES CREEK? JOINTS ACHE?
Try Bradfords Rheumatic Tablets. Sold for years to satisfied customers.
75c Postpaid
GORDON'S DRUGS
13 Clinton Ave., Cortland, N. Y.

OLD LEG TROUBLE



Easy to use Viscose Home Method heals many old leg sores caused by leg congestion, varicose veins, swollen legs and injuries or no cost for trial if it fails to show results in 10 days. Describe the cause of your trouble and get a FREE BOOK
O.F. VISCOSE COMPANY
140 N. Dearborn St., Chicago, Ill.

POSTAL RATES.—DOMESTIC

June 15, 1950

New legislation is again being proposed as we go to press, which may affect these rates.

First Class Matter may be forwarded from one Post Office to another without additional postage, but other matter must have new postage.

LETTERS AND POSTAL CARDS.— FIRST CLASS.

Letters and Written and Sealed Matter, 3 cents for each ounce, local and non-local, except that drop letters are subject to 1 cent for each ounce when deposited for local delivery at offices not having letter-carrier service, provided they are not collected or delivered by rural or star-route carriers.

Post Cards and Private Mailing Cards which comply with Departmental requirements..... .01

Business Reply Cards or Letters, consult Post Office.

NEWSPAPERS AND PERIODICALS.— SECOND CLASS.

Entire Newspapers or Magazines containing notice of 2nd class entry, when mailed by the public; for each two ounces or fraction, regardless of distance or weight.... .01

Fourth class rate applies when it is lower than second class.

MERCHANDISE AND MISCELLANEOUS.— THIRD CLASS.

(Limit of weight 8 ounces.)

Merchandise, incomplete copies of newspapers, printed and other mailable matter, 2 cents for first two ounces, 1 cent each additional.

Identical pieces of third-class matter may be mailed under permit in bulk lots of not less than either 20 pounds or 200 pieces, at the rate of 14 cents a pound, or fraction thereof, in case of circulars, miscellaneous printed matter, and merchandise, and 10 cents a pound, or fraction thereof, in the case of books or catalogs having 24 pages or more, seeds, plants, etc., with a minimum charge of 1 cent a piece in either case. Apply to postmaster for permit. The bulk mailing fee is $10 per calendar year.

Minimum charge for pieces of odd size or form, 3 cents.

Books, catalogues mailed in packages not exceeding 8 oz. in weight (must be of 24 or more pages and substantially bound, with at least 22 pages printed, seeds, cuttings, bulbs, roots, scions and plants, 2 ounces or fraction ..... .015

Catalogs and Similar Printed Advertising Matter, in bound form having 24 or more pages, weighing over 8 ounces but not exceeding 10 pounds.

		ZONES						
Pounds	Local cents	1st and 2nd cents	3rd cents	4th cents	5th cents	6th cents	7th cents	8th cents
1	7½	8	9	10	12	13	14	15
2	8½	9½	11	12½	15	17	19	21
3	9½	11	13	15	18	21	24	27
4	10½	12½	15	17½	21	25	29	33
5	11½	14	17	20	24	29	34	39
6	12½	15½	19	22½	27	33	39	45
7	13½	17	21	25	30	37	44	51
8	14½	18½	23	27½	33	41	49	57
9	15½	20	25	30	36	45	54	63
10	16½	21½	27	32½	39	49	59	69

Exception: 1st or 2nd zone, where shortest regular mail route is 300 miles or more, 3rd zone rate applies

Books: 8c for the first pound or fraction thereof and 4c for each additional pound or fraction thereof—24 or more pages permanently bound, not to exceed 70 pounds in weight.

Library Books: 4c for the first pound or fraction thereof and 1c for each additional pound or fraction thereof—limit of weight 70 pounds—when sent by public libraries, organizations, or associations not organized for profit for delivery in 1st three zones or within state where mailed.

PARCEL POST.— FOURTH CLASS.

(For Zone consult Post Office)

Everything over 8 ounces, including books and printed matter, except First Class and newspapers and other periodicals entered as Second Class matter mailed by the publishers:—

		ZONES						
Weight in Lbs.	Local	1-2 Up to 150 Miles	3 150 to 300 Miles	4 300 to 600 Miles	5 600 to 1,000 Miles	6 1,000 to 1,400 Miles	7 1,400 to 1,800 Miles	8 Over 1,800 Miles
1	$0.10	$0.12	$0.13	$0.14	$0.15	$0.16	$0.17	$0.18
2	.11	.15	.16	.19	.21	.24	.27	.30
3	.12	.17	.19	.23	.27	.31	.36	.41
4	.13	.19	.22	.28	.33	.39	.46	.53
5	.14	.21	.25	.32	.39	.46	.55	.64
6	.15	.23	.28	.37	.45	.54	.65	.76
7	.16	.25	.31	.41	.51	.61	.74	.87
8	.17	.27	.34	.46	.57	.69	.84	.99
9	.18	.29	.37	.50	.63	.76	.93	1.10
10	.19	.31	.40	.55	.69	.84	1.03	1.22
11	.20	.33	.43	.59	.75	.91	1.12	1.33
12	.21	.35	.46	.63	.80	.98	1.21	1.44
13	.22	.37	.49	.68	.86	1.06	1.31	1.56
14	.22	.39	.52	.72	.91	1.13	1.40	1.67
15	.23	.41	.54	.76	.97	1.20	1.49	1.78

Permissible Additions to and Enclosures with Parcel Post: Marks, numbers, names or letters for description purposes may be placed on fourth-class matter. Books may bear a simple manuscript dedication or inscription not in the nature of personal correspondence. A written or printed invoice or descriptive inscriptions indicating price, style, stock number, size, date of order, etc., may be enclosed. Inscriptions such as "Merry Christmas," or the like may be written on the parcel or a card enclosed therein.

A letter addressed to correspond with the address on the parcel may be tied to or otherwise securely attached to the parcel so as not to interfere with the address thereon. Stamps to cover postage on the parcel must be affixed to the wrapper and postage for the letter must be affixed to the envelope.

Sealing: Fourth-class matter may be sealed provided it bears a printed label "Merchandise—Fourth-class mail," together with the inscription "Postmaster: This parcel may be opened for postal inspection if necessary."

SPECIAL CLASSES—DOMESTIC MAIL

Special Handling.—Fourth-class matter only.

Parcels of fourth-class matter endorsed "Special Handling" will be given the most expeditious handling, transportation, and delivery practicable (but not special delivery) upon payment, in addition to the regular postage, of the following charge:

	Cents
Up to 2 pounds	15
Over 2 pounds up to 10 pounds	20
Over 10 pounds	25

The special handling charge applies to all parcels containing day-old fowl, package bees carried outside mail bags, or baby alligators, and to any other parcels which it is desired to have so treated.

Special-Delivery Fees (all classes of mail including air mail):

	First class (cents)	Second, third, or fourth class (cents)
Up to 2 pounds	15	25
Over 2 pounds up to 10 pounds	25	35
Over 10 pounds	35	45

The prepayment of the foregoing fee on second-, third-, or fourth-class mail entitles it to the most expeditious handling and transportation practicable, and also entitles it to special delivery at the office of address. Particularly recommended for perishable matter and other parcels, especially air parcels, likely to reach offices of address too late for regular delivery.

Registered Mail.—Fees for indemnity limited to:

$5	$0.25	$200	$0.60	$700	$1.20
$25	.35	$300	.70	$800	1.30
$50	.40	$400	.85	$900	1.40
$75	.45	$500	1.00	$1,000	1.50
$100	.50	$600	1.10		

Domestic registered mail is subject to surcharges in addition to regular registry fees when declared value exceeds maximum indemnity.

Insured Mail (third and fourth classes).—Fees for indemnity limited to:

	Cents		Cents
$5	5	$50	20
$10	10	$100	25
$25	15	$200	30

C. O. D. Mail—Unregistered (third and fourth classes and sealed matter of any class bearing postage at the first-class rate).—Fees for collections and indemnity limited to:

	Cents		Cents
$2.50	20	$100	55
$5.00	25	$150	60
$25.00	35	$200	65
$50.00	45		

Money Orders (limit $100 each).—Fees for orders from—

	Cents		Cents
$0.01 to $5	10	$10.01 to $50	25
$5.01 to $10	15	$50.01 to $100	35

Postal Notes (limit $10 each).—Fee 8 cents each. Postal notes are valid for two calendar months from last day of month of issue and are payable thereafter only by means of a duplicate note, application for which may be filed at any post office. Applications must be filed within 1 year from the last day of the month of issue.

POSTAL RATES (Continued)

AIRMAIL ON UNITED STATES CONTINENT:

Letters: .06 per oz. **Postals:** .04 each.

Parcel Post—up to 70 lbs.

ZONES	1 & 2	3	4	5	6	7	8
Weight in lbs. over 8 ozs. to	Up to 150 Miles	150 to 300 Miles	300 to 600 Miles	600 to 1000 Miles	1000 to 1400 Miles	1400 to 1800 Miles	Over 1800 Miles
1	$0.55	$0.60	$0.65	$0.70	$0.75	$0.75	$0.80
10	.91	1.32	1.91	2.86	3.72	4.80	6.65
25	1.51	2.52	4.01	6.46	8.67	11.55	16.40
50	2.51	4.52	7.51	12.46	16.92	22.80	32.65
70	3.31	6.12	10.31	17.26	23.52	31.80	45.65

POSTAL RATES.—FOREIGN

Letters.—For the places in the following list the postal rate is **3 cents** each ounce or fraction. For all other foreign destinations, **5 cents** first ounce and **3 cents** each additional ounce or fraction: **Agrentina, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, Guatemala, Haiti, Honduras (Republic), Mexico, Nicaragua, Panama, Paraguay, Peru, Philippines, Salvador, El; Spain and possessions; Uruguay, Venezuela.**

Post Cards.—Single post cards for places enumerated above 2 cents. Single post card for all other foreign destinations 3 cents. Maximum size 6x4¼ inches, minimum size 4x2¾ inches.

Printed Matter.—1½ cents for each two ounces or fraction thereof.

Eight-ounce Merchandise Packages.—Packages of merchandise weighing 8 ounces or less, for the countries named in the table above, except the Philippines, 2 cents for each 2 ounces. Do not seal. Mark—"May be Opened for Inspection."

Small Packets.—Three cents for each 2 ounces, with a minimum charge of 15 cents per packet. Limit of weight: 2 pounds, 3 ounces. Dimensions: Same as for letters. (Inquire at main office or classified stations for list of countries which accept small packets and mailing instructions.)

AIR MAIL: U.S. (Outside Continent) AND FOREIGN

A. 6 cents: (Per ounce) Canada, Mexico; Armed Forces or Civilian personnel with Army or Navy Postoffice addresses Continental United States, Alaska, Canal Zone. Canton Island, Guam, Hawaii, Puerto Rico, and U. S. Virgin Islands.

Aa. Postals and Post Cards:—4 cents each.

B. 8 cents: Cuba .08—½ oz.

C. 10 cents: Central and South America. West Indies, British and French Guiana, British Honduras, Surinam and Bermuda .10—½ oz.

D. 15 cents: Great Britain, Europe and other Islands in waters around it, U.S.S.R., Vatican City, Algeria, Egypt, Iceland, Libya, Morocco, Tunis, Turkey .15—½ oz.

E. 25 cents: All other localities .25—½ oz.
Weight limit is 4 lbs., 6 oz. except: Canada, 60 lbs.

F. Air-letter sheets, 10 cents each to any foreign country, on sale at all postoffices.

INTERNATIONAL PARCEL POST BY AIR

Because of the varying rates and conditions, as well as frequent changes, applicable to foreign countries, it is important that a qualified postal employee handle parcel post transactions. Weight limits vary from 11 to 44 lbs.

	1. Commercial Papers, Printed Matter, etc., Samples (Unsealed)		2. Packages	
From U. S. to:	First 2 oz.	Ea. Add'l 2 oz.	First 4 oz.	Ea. Add'l 4 oz.
England	$0.41	$0.20	$1.00	$0.41
France	.42	.21	1.22	.44
Belgium	.42	.21	.98	.43
Italy	.45	.24	1.08	.50
Sweden	.45	.24	.85	.49
Egypt	.52	.31	1.35	.64

CLASSIFIED ADVERTISEMENTS

BOOKS

BOOKS, pamphlets, on Christian Evidence. Catalog on request. Christian Evidence League, Box 277-A, Malverne, N.Y.

BOOKS — PRINTS — Autographs — Broadsides — Music — etc. Bought and Sold. Edward Morrill and Son, 1252 Mass. Ave., Harvard Square, Cambridge, Parking Facilities, 8 minutes from Boston by subway.

BOOKS — Save up to 80%. Wonderful Bargains new books. Also used library surplus — Novels, Mysteries, Science, General Reading. Free catalog. 2,000 titles. Bookland Al, College Point, N. Y.

FREE! Send for your copy of The Voice of Prophecy News and radio log. No obligation, nothing to buy. The Voice of Prophecy, Box 55, Los Angeles 53, California.

TEACH BIBLE Interpretation: Scientific Right Thinking Bible course prepared for home study. Send 25 cents for sample lesson and descriptive literature. The Scroll, P. O. Box 9175, Los Angeles 5, California.

THE STORY OF CONNECTICUT — 500 pages, wealth of early and modern illustration, authentic, beautifully bound in blue and gold. Postpaid two dollars. Lewis S. Mills, 56 Broad St., East Hartford 8, Conn.

BUSINESS OPPORTUNITIES

HIGHEST CASH PAID FOR Old, Broken, Jewelry, Gold Teeth, Watches, Silverware, Diamonds, Spectacles. Free information. Satisfaction Guaranteed. Government Licensed. Rose Smelting Company, 29-YB East Madison, Chicago.

LEARN CANDYMAKING, Soapmaking for your own use and resale to others. Instruction Books $1.00 each. C.O.D. 30c extra. Artie Barnes, Gen. Del., Wichita, Kansas.

LONG NEEDED INVENTION. Fire Extinguishers. Every home, store, farm a prospect. Full or part time. Low price, long profit. Commissions. Free outfit. Write Red Comet, Inc., Dept. 800, Littleton, Colorado.

MONEY MAKING OPPORTUNITIES. Hundreds to choose from. Read World's Biggest Classified Medium (over 1000 ads.) Copy sent, absolutely free. Popular Mechanics Classified, 203-N East Ontario, Chicago, 11.

OLD GOLD. Cash Paid Promptly for Old Gold . . . Scrap Silver . . . Platinum . . . etc. Otis Rossell, Waltersburg, Pa.

START Home Manufacturing Business making cleaning compounds, soaps, insecticides, cosmetics, polishes, food flavors. No Machinery. Literature Free. Kemiks, Park Ridge, Illinois.

THOUSANDS Earn Money at Home. Easy when you know how. Revealing Particulars Free. Including Magazine, 10c. Cutler, 20-aa South Ninth, Reading, Penna.

WANTED Fleece Wool, Sheep Skins, Hides, Deer Skins, Calfskins, Horse Hides, Raw Furs, Ginseng. 45th Year in business. A dependable firm to ship to. Correspondence invited. Keystone Hide Company, Lancaster, Pa.

COINS and STAMPS

COINS, STAMPS and old envelopes wanted. Highest prices paid. Illustrated United States Rare Coin Value Guide 50c. Scott Stamps, 25 Tremont Street, Boston, Mass.

GOLD COINS wanted, also others give dates, enclose postage. Coin Guide 25c. Coin and Stamp Store, Rockford 50, Illinois.

32 DIFFERENT STAMPS — U. S., Gold Coast, Newfoundland, Germany, Austria, Switzerland, Trinidad, Fiji, others — with approvals, 10c. Burgett Stamps, Lima, Ohio.

WANTED: Old letters written before postage stamps were used; also envelopes and letters bearing stamps mailed before 1870. Ernest S. Park, Wolfeboro, New Hampshire.

COLLECTORS

FIREARMS WANTED: Antique and Modern. Also cap and ball revolvers for prompt cash. Send full description and price wanted. Kimball Arms Company, Woburn, Mass.

MUSIC BOXES. All types Expertly Repaired, Bought, Sold. Send for our List. A. V. Bornand Co., 139 Fourth Ave., Pelham 65, N. Y. (Originally established in Switzerland, 1825.)

TEN ASSORTED SPECIMENS — Pacific Coast woods 2½ x 5 x ⅜ inches, $2.00. Myrtlewood, oval napkin ring 75c postpaid. E. Binford, Oceanlake, Oregon.

FOOD

CREAMED MAPLE BUTTERNUT Candy $1.50 pound postpaid, insured. Gift wrapped if desired. Woolley's, Bellows Falls, Vermont.

SPECIAL OFFERINGS from our Back-Yard Herb Garden: Delectable Herb Vinegars; Tangy Herb Mustards; Sparkling Herb Jellies; Exotic Rose Petal Products including Vinegar, Jelly, Honey, "Sweet" Bags. Regular offering

— Herbs for Seasoning. Write for descriptive folder. Ye Olden Craft Studio, 81 Union Street, Fairhaven, Mass.

HOUSEHOLD & PERSONAL

DANIELS' DINKY DOLLS — B570, Grafton, Massachusetts. Distinctive, original handmade play dolls. Beautifully dressed. Retail. Wholesale. Illustrated folder. Pedigreed Red Persians. Canaries. Reasonable. Visitors always welcome.

DRITZ HOOKED RUG PATTERN Catalog, partly in color — send twenty cents right away. The Rug Hatch, 94 Prospect, Gloucester, Mass.

FOR ARTHRITIC stiffness and pains get free information about an ancient aid which can work well today. Mary Tuck, Brookfield, A, Conn.

FREE CATALOG: Useful gifts, essentials, toys, to make or purchase. Craftsman's Books. Novelkraft, 3115 N. Sixteenth St., Philadelphia 32, Pa.

HANDWEAVING Looms and Lending Library. Robert Heartz, Epping, New Hampshire.

HAND Embroidered Felt Baby Booties: pink, blue or yellow $2.00 Postpaid. No C.O.D. Mrs. Oscar Hagstrom, 70 Holden Street, Worcester 5, Mass.

HOOKED RUGS have charm! Visit "Rose Cottage," home of beautiful designs and supplies. Monday through Friday, 2-5 P.M. Free Literature. Pearl K. McGown, West Boylston, Mass.

NAME PLATES for your door. Solid brass, with plain engraving. Sizes 4¾ by 2 or 3½ by 2. Buy one for yourself; give one to a friend. Send $1.00 with order to H. Schneider, 36 Irving Street, Waterbury, Conn. Pay postman $1.98 plus postage when delivered. Print name to be engraved.

PAPER FLOWER KITS — Bright — Gay — Easy to Make — Complete Directions and Materials. Roses; Carnations; Daffodils; Poppies; Asters; Sweet Peas. Any four kits $1.25. Yankee Pedlar, New London, Conn.

PEN AND INK sketches for reproduction, etc. Family Homesteads and other architectural subjects are specialty. The Durward Maddocks Studio, 116 Wayland Ave., Cranston 9, R. I.

SAVE PLENTY. Build your own Freezer. Plans $3.00. Wood lathe plans $1.00. Over 100 other plans for needed Home, Farm Machinery easily built by ordinary man from salvage materials. Descriptive Handbook 25c. (Refundable). Free Details. Kimo, Box 307-FA, New York, 19.

THREAD. Sew with satisfaction. Use dependable Knight Brand. Black, White 600 yards only 25 cents. Try the new stabilized Nylon Thread. One dozen, assorted colors, 125 yard spools, $1.25, House of Jan, Groton, Connecticut.

TRUTH IS FREEDOM: Read Books on Truth "Biography Of A Prayer," The prayer Jesus taught explained in such a way that it is useful in solving all life's problems. (Price $1.10); This Is It — Proof Of Immortality, contains wonderful method of Prayer. (Price 60 cents.) Definition Of God, a scientific summation of a life time of study of source material. A Monograph, $1.00: Metaphysics for layman or teacher (send 50 cents for first lesson). The Scroll, P. O. Box 9175, Los Angeles 5, California.

VITAMINS at large savings. Complete Line. Satisfaction guaranteed. Write today for free price list. Levitt Prods., Box 718-A, Woodmere, N. Y.

MISCELLANEOUS

ARTIFICIAL EYES — Assortments mailed you from world's largest, finest selection imported glass and all-plastic unbreakable eyes. Write for free booklet and color chart. Established 1906. Denver Optic Company, 568 University Building, Denver, 2, Colo.

FOR SALE, Houses, Farms, Acreage. Within sixty miles of New York City. Send for List. Paul N. Boughton, Farm Broker, Warwick, N. Y.

FORECASTERS. Report Best Fishing Days. Reveals Best Fishing Days ahead for 1951. Pronounced 85% Correct. Postpaid $1.00. Usher's Forecasting Company, 726 N. Hampton, Dallas, Texas.

SPRING Rainbow of mixed Primroses, the rare new shades, grown in rugged climate. Doz. $4.00 Postpaid East of Rockies. Boulder Wall Gardens, Walpole, N. H.

Wanted! - PLASTIC HOME PRODUCERS

By manufacturers on our Clearing House List. Increase your income at home by making plastic products for companies. Everyone tells you where to buy it! We tell you where to sell it! No experience required. For details, write to **Plastic Service Guild, Dept. F, 233 Condor St., E. Boston, Mass.**

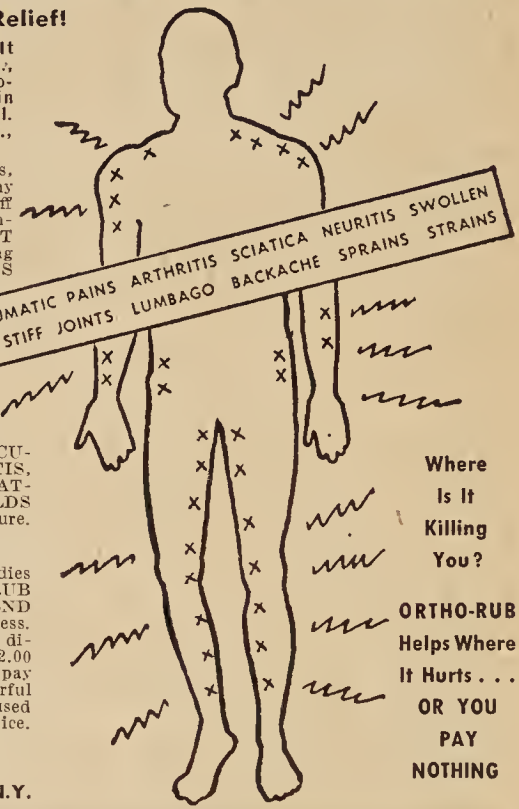
RHEUMATIC PAINS
ARTHRITIS SCIATICA

Agonizing Miseries Relieved in Minutes Without Taking Medicine . . . OR NO COST TO YOU!

Here's Proof of Amazing Relief!

"Had such pain I couldn't sleep. It sure was a Godsend."—Mr. F. K., Flemington, N. J. "Received Ortho-Rub last Thursday. It's a great pain reliever."—G. M., Garden Prairie, Ill. "Sure has helped my knees." F. H., Uniontown, Ky.

When horrible pain strikes your legs, arms, back or body—don't suffer any longer! You may not have to stuff yourself with bad-tasting, habit-forming medicines. NOW you can get FAST symptomatic relief by just applying ORTHO-RUB WHEREVER IT HURTS YOU. ORTHO-RUB is a scientific, powerful formula containing a combination of pain relievers often recommended by Doctors. ORTHO-RUB acts FAST, as a counter-irritant analgesic that helps chase miseries away. You will say "THANK GOD!" for the blessed relief from those agonizing torture symptoms often associated with MUSCULAR RHEUMATIC PAINS, ARTHRITIS, SWOLLEN OR STIFF JOINTS, SCIATICA, BACKACHE, SPRAINS, or COLDS due to fatigue, over-exertion or exposure.



SEND NO MONEY!

If you've been trying all sorts of remedies without success—get a jar of ORTHO-RUB Ointment without risking a penny. SEND NO MONEY! Just your name and address. When ORTHO-RUB arrives, use as directed. Just deposit with postman $2.00 plus postage (or send $2.00, we pay postage). If you don't get wonderful relief IN MINUTES, return unused portion for full refund of purchase price. Order NOW!

ORTHO INC., Dept. 104RC
2700 Broadway, New York 25, N.Y.

ABBREVIATIONS

Abbreviations used on calendar pages 12–35

Aph. — Aphelion . . . Planet revolving about Sun reaches point in its orbit farthest away from the Sun.

Apo. — Apogee . . . Moon reaches point in its orbit farthest from Earth.

Conj. — conjunction . . . moment of closest approach to each other of any two heavenly bodies.

El. — elongation . . . apparent angular distance of a member of the solar system from the Sun as seen from the Earth.

Inf. — Inferior . . . Inferior conjunction is when the Planet is between the Sun and the Earth.

Peri. — Perigee . . . Moon reaches point in its orbit closet to Earth.

Peri. — Perihelion . . . Planet revolving about the Sun reaches point in its orbit closest to Sun.

Stat. — stationary . . . when the apparent movement of a Planet against the background of Stars stops — just before same comes to opposition.

Sup. — Superior . . . Superior Conjunction is when the Sun is between the Planet and the Earth.

USE THIS ALMANAC ANYWHERE IN THE U. S. A.

The times given on the left hand calendar pages (12 to 34) are calculated (every astronomer must have some starting place) exactly for the latitude (42 deg. 22 min. north) and longitude of Boston and in EASTERN STANDARD TIME which is the time of the 75th meridian West of Greenwich, England.

To overcome the difficulties of presenting one almanac which shall be useful not only for the spot where the astronomer is standing but also for other places, it has been customary to present three or four extra latitude columns — which at best give but a small measure of the desired accuracy. The Old Farmer's Almanac adopted a unique, copyrighted system of its own some years ago whereby the times as given may be corrected for wherever you happen to live by the use of the Almanac Data tables on pages 104 through 109.

Opposite the times given on the left hand calendar pages (12–34) for each day in the year for the Rising and Setting of the Sun, Moon and Planets you will find a capitalised letter of the alphabet. Turning to pages 108 and 109 you will find columns for each of these letters as well as number of cities listed. If you live in one of those cities, simply read off the minus or plus number of minutes in the column under the alphabetical letter and correct the times given on pages 12–34. If your city is not listed, enter the corrections table on pages 108 and 109 in that section, the longitude of which is nearest your town's and, using your town's latitude, interpolate between the corrections shown for various latitudes for figures to insert in Columns A to Q for your town in the space below.

Modify these figures by four minutes for each degree of difference of longitude between the longitude of your town and the longitude of the table chosen as nearest it. Add this modification if your town's longitude is greater than the table's longitude, subtract it if it is lesser.

The net figures resulting from this modification will be those to use in correcting the Almanac figures for Boston to give the standard times for your town. The figure for insertion in the Moon column (☽) is derived by interpolating between longitudes to fit the longitude of your town.

	A m	B m	C m	D m	E m	F m	G m	H m	I m	J m	K m	L m	M m	N m	O m	P m	Q m	☽
YOUR TOWN																		
Lat.																		
Lo.																		

Do You Suffer Distress From 'PERIODIC' FEMALE WEAKNESS

and feel so nervous several days before?

Do female functional monthly ailments make you suffer painful distress, make you feel so nervous, so strangely restless, tired and weak—at such times (or a few days just *before* your period)?

Then start taking Lydia E. Pinkham's Vegetable Compound to relieve such symptoms. No other medicine of this type for women has such a long record of success. Pinkham's Compound not only relieves this monthly pain but also pre-period nervous tension and cross, irritable emotions—of this nature. It has such a comforting antispasmodic action on *one of woman's most important organs.* Regular use helps build up resistance against such female distress. Truly *the woman's friend!*

NOTE: Or you may prefer Lydia E. Pinkham's TABLETS with added iron.

LYDIA E. PINKHAM'S Vegetable Compound

EXAMPLES OF HOW TIMES GIVEN PAGES 12-34 ARE TO BE CORRECTED FOR YOUR HOME TOWN

Sunrise and Sunset. The times of sunrise and sunset at Boston on April 11 are read directly from columns 4 and 6 on page 18. The key letters adjacent to these times, in columns 5 and 7, are indices to the table on page 108 whereby the times of sunrise and sunset at Boston are converted into those for other key cities, to wit:—

BOSTON		HOUSTON, TEXAS	
Sunrise	5.11 A.M.E.S.T.	Sunrise (Boston)	5.11 A.M.E.S.T.
Key Letter	G	Correction (Column G, page 108)	+:49
		Sunrise (Houston)	6:00 A.M.C.S.T.
Sunset	6:21 P.M.E.S.T.	Sunset (Boston)	6:21 P.M.E.S.T.
Key letter	K	Correction (Column K, page 108)	+:24
		Sunset (Houston)	6.45 P.M.C.S.T.

Sun Fast. The column headed "Sun Fast" is of primary use to sundial enthusiasts. The figures therein tell how fast on each day the time indicated by a *properly adjusted and graduated* sundial will be of the time indicated by a clock. On April 11 sun time in Boston will be 15 minutes Fast of Eastern Standard Time. The time indicated by a sundial located elsewhere than in Boston is converted to clock time by applying two corrections, the "Sun Fast" correction for Boston and that for the locality given in Column I of the table on page 108 or 109.

Dawn and Dark. The approximate times dawn will break and dark descend are found by applying the length of twilight taken from the table below to the times of sunrise and sunset given on the calendar pages. The latitude of the locality determines the column of the table from which the length of twilight is to be selected. See pages 108, 109 to interpolate your latitude.

BOSTON (Latitude 42° 22′ N.)		NORFOLK, VA. (Latitude 36° 51′ N.)	
Sunrise	5:11 A.M.	Sunrise	6:02 A.M.
Subtract length of twilight (Column 4 of table)	1:39	Subtract length of twilight (Column 4 of table)	1:28
Dawn breaks	3:32 A.M.E.S.T.	Dawn breaks	4:34 A.M.C.S.T.
Sunset	6:21 P.M.	Sunset	6:56 P.M.
Add length of twilight	1:39	Add length of twilight	1:28
Dark descends	8:00 P.M.E.S.T.	Dark descends	8:24 P.M.C.S.T.

LENGTH OF TWILIGHT

Subtract from time of sunrise for dawn.
Add to time of sunset for dark.

Latitude	25°N to 30°N	31°N to 36°N	37°N to 42°N	43°N to 47°N	48°N to 49°N
	h m	h m	h m	h m	h m
Jan. 1 to Apr. 11	1 20	1 26	1 33	1 42	1 50
Apr. 11 to May 3	1 23	1 28	1 39	1 51	2 04
May 3 to May 15	1 26	1 34	1 47	2 02	2 22
May 15 to May 26	1 29	1 38	1 52	2 13	2 42
May 26 to July 23	1 32	1 43	1 59	2 27	—
July 23 to Aug. 4	1 29	1 38	1 52	2 13	2 42
Aug. 4 to Aug. 15	1 26	1 34	1 47	2 02	2 22
Aug. 15 to Sept. 6	1 23	1 28	1 39	1 51	2 04
Sept. 6 to Dec. 31	1 20	1 26	1 33	1 42	1 50

Length of Day. The figures in the column headed "Length of Day" give directly the length of time the Sun will be above the horizon at Boston. The length of day in other localities is found by subtracting the time of sunrise from that of sunset for each locality. (See *Sunrise and Sunset* above).

BOSTON		HOUSTON, TEXAS	
Length of day (From calendar pages)	13h 11m	Sunset	6:45 P.M.
		Sunrise	6:00 A.M.
		Length of Day	12h 45m

Moonrise and Moonset. The procedure for finding the times of moonrise and moonset follows that for finding those of sunrise and sunset except that the constant additional correction taken from Column ☽ on pages 108, 109 must be applied.

BOSTON		HOUSTON	
Moonrise	11:10 P.M., E.S.T.	Moonrise (Boston)	11:10 P.M.
Key letter	Q	Correction (Column Q, page 109)	—:10
		Correction (Column ☽, page 109)	+:04
		Moonrise (Houston)	11:04 P.M.,C.S.T.

Moon Souths. The time the moon souths in Boston is converted to the time it is due south in a locality other than Boston by applying the appropriate corrections from Columns I and ☽ on page 48.

BOSTON		HOUSTON	
Moon souths	3:51 P.M.E.S.T.	Moon souths (Boston)	3:51 P.M.
		Correction (Column I, page 109)	+:37
		Correction (Column ☽, page 109)	+:04
		Moon souths (Houston)	4:32 P.M.,C.S.T.

The other information concerning the Moon contained on the left hand Almanac pages applies without correction throughout the United States.

Risings and Settings of the Planets. The times of the rising and setting of the naked eye Planets with the exception of Mercury are given for Boston in the table on page 4. The procedure for converting these times to those of other localities follows that for converting the times of sunrise and sunset given on page 104.

AVERAGE DATES FIRST AND LAST KILLING FROSTS

Boston	Apr. 14 — Oct. 26	Richmond	Mar. 31 — Nov. 2
Albany	Apr. 24 — Oct. 15	Raleigh	Mar. 27 — Nov. 5
Harrisburg	Apr. 9 — Oct. 28	Macon	Mar. 14 — Nov. 14
Cincinnati	Apr. 8 — Oct. 23	Del Rio	Feb. 23 — Nov. 27
Toledo	Apr. 22 — Oct. 18	Helena	May 7 — Sept. 29
Chicago	Apr. 16 — Oct. 19	Santa Fe	Apr. 25 — Oct. 19
Detroit	Apr. 28 — Oct. 15	Tucson	Mar. 11 — Nov. 9
Duluth	May 6 — Oct. 5	Yuma	Jan. 20 — Dec. 20
Bismarck	May 11 — Sept. 21	Portland, Ore.	Mar. 15 — Nov. 21
Omaha	Apr. 14 — Oct. 15	San Francisco	Jan. 13 — Dec. 29
Portland, Maine	Apr. 19 — Oct. 17	Parkersburg	Apr. 17 — Oct. 18
Hartford	Apr. 20 — Oct. 13	Oklahoma City	Mar. 30 — Nov. 3
Evansville	Apr. 5 — Oct. 29	Denver	May 3 — Oct. 10
Cairo	Mar. 31 — Oct. 29	Spokane	Apr. 14 — Oct. 13
Minneapolis	Apr. 27 — Oct. 10	Salt Lake City	Apr. 18 — Oct. 20
Concord, N. H.	May 7 — Oct. 3		

WEATHER TABLE,

For foretelling the Weather through all the lunations of each year, forever.

This table, and the accompanying remarks, are the result of many years' actual observation, the whole being constructed on a due consideration of the attraction of the sun and moon, in their several positions respecting the earth, and will, by simple inspection, show the observer what kind of weather will most probably follow the entrance of the moon into any of its quarters, and that so near the truth as to be seldom or never found to fail.

This weather table will answer very well for anywhere in the United States. It is taken from the 1849 issue of The Old Farmer's Almanac and was widely used before the advent of the Weather Bureau.

The weather forecasts as given on the right hand pages of the Farm Calendars on pages 13 through 35 are strictly for Boston and East of the Hudson River. These forecasts contain elements which rise in the proximity of this region to the sea and to the paths of tropical storms. The application of these forecasts to middle western, western, and southern regions will not bring any reasonable degree of accuracy. However, for a rough rule of thumb if you insist on using the forecast on pages 13–35, you may subtract one day for each time zone West of the Hudson to compensate for the Easterly path of continental storms. For every hundred miles north or south of 42 degrees latitude, add a five degree temperature (colder if north, warmer if south) differential and for every 1000 feet above sea level consider your locality as five degrees cooler than the weather as given.

WEATHER TABLE FOR ANYWHERE

Moon	Time of Change	In Summer	In Winter
If the new moon, 1st quarter, full moon, or last quarter happens.	From Midnight to 2 A.M.	Fair	Hard frost, unless wind be S. or W.
	From 2 A.M. to 4 A.M.	Cold, with frequent showers	Snow and stormy
	From 4 A.M. to 6 A.M.	Rain	Rain
	From 6 A.M. to 8 A.M.	Wind and Rain	Stormy
	From 8 A.M. to 10 A.M.	Changeable	Cold Rain if wind be W.; Snow if E.
	From 10 A.M. to Noon	Frequent Showers	Cold & high wind.
	From Noon to 2 P.M.	Very rainy	Snow or rain.
	From 2 P.M. to 4 P.M.	Changeable	Fair & mild.
	From 4 P.M. to 6 P.M.	Fair	Fair.
	From 6 P.M. to 8 P.M.	Fair — if wind N.W. Rain — if S. or S.W.	Fair & frosty if wind N. or N.E.: Rain or snow if wind S. or S.W.
	From 8 P.M. to 10 P.M.	Same as from 6 P.M. to 8 P.M.	
	From 10 P.M. to Midnight	Fair	Fair & frosty.

Observations. — 1. The nearer the moon's changes, first quarter, full, and last quarter are to *midnight*, the fairer will it be during the next seven days.

2. The space for this calculation occupies from ten at night till two next morning.

3. The nearer to *midday*, or *noon*, the phases of the moon happen, the more foul or wet weather may be expected during the next seven days.

4. The space for this calculation occupies from ten in the forenoon to two in the afternoon. These observations refer principally to the summer, though they affect spring and autumn nearly in the same ratio.

5. The moon's change, first quarter, full and last quarter, happening during six of the afternoon hours, i.e., from four to ten, may be followed by fair weather; but this is mostly dependent on the *wind*, as is noted in the table.

6. Though the weather, from a variety of irregular causes, is more uncertain in the latter part of autumn, the whole of winter, and the beginning of spring, yet, in the main, the above observations will apply to those periods also.

7. To prognosticate correctly, especially in those cases where the *wind* is concerned, the observer should be within sight of a good *vane*, where the four cardinal points of the heavens are correctly placed.

The above table was originally formed by Dr. Herschell, and is now published with some alterations founded on the experience of Dr. Adam Clarke.

TO THE WEATHER-WISE

Dr. Foster, of Bruges, who is well known as a meteorologist, declares that, by journals of the weather kept by his grandfather, father, and himself, ever since 1767, to the present time, *whenever the new moon has fallen on a Saturday, the following twenty days have been wet and windy*, in nineteen cases out of twenty.

TIDE CORRECTIONS

To obtain the time and height of high water at any place, apply the differences in accordance with the sign given to the daily predictions for Boston (Commonwealth Pier). Where a value in the "height difference" column is preceded by an*, the height at Boston should be multiplied by this ratio.

	Time Difference h.m.	*Height Difference Ft.*
MAINE		
Augusta	+3 50	*0.4
Bangor	−0 05	+3.6
Bar Harbor	−0 33	+1.1
Boothbay Harbor	−0 20	−0.8
Eastport	−0 28	*1.9
Old Orchard	−0 10	−0.7
Portland	−0 10	−0.6
Stonington	−0 30	+0.2
NEW HAMPSHIRE		
Hampton	+0 15	−1.2
MASSACHUSETTS		
Fall River	−3 16	*0.5
Falmouth	−0 40	*1.1
Hyannisport	+0 45	*0.3
Lynn	+0 05	−0.2
Marblehead	−0 05	−0.3
Marion	−3 16	*0.4
Monument Beach	−3 06	*0.4
Nantasket	+0 10	+0.1
Nantucket	+0 50	*0.3
New Bedford	−3 21	*0.4
Oak Bluffs	+0 05	*0.2
Onset	−3 06	*0.5
Plymouth	0 00	+0.1
Provincetown	+0 15	−0.3
Scituate	−0 05	−0.5
Wellfleet	+0 20	+0.6
Woods Hole	−3 01	*0.2
RHODE ISLAND		
Block Island	−3 21	*0.3
Narragansett Pier	−3 31	*0.4
Newport	−3 31	*0.4
Providence	−3 11	*0.5
Watch Hill	−2 06	*0.3
CONNECTICUT		
Long Island Sound	−0 02	*0.7
New London	−1 47	*0.3
NEW YORK		
Coney Island	−3 00	*0.5
Long Beach	−3 57	*0.5
Long Island Sound	+0 08	*0.7
New York City	−2 50	*0.5
Ocean Beach	−3 57	*0.4
Southampton	−3 22	*0.3
NEW JERSEY		
Atlantic City	−3 57	*0.5
Bayside	−0 24	*0.6
Cape May	−3 37	*0.5
Ocean City	−3 17	*0.4
Seabright to Seaside Park	−3 44	*0.5
PENNSYLVANIA		
Philadelphia	+2 29	*0.5
DELAWARE		
Rehoboth	−3 37	*0.4
MARYLAND		
Baltimore	−4 25	*0.1
Ocean City	−3 57	*0.4
DISTRICT OF COLUMBIA		
Washington	−3 08	*0.3
VIRGINIA		
Norfolk	−1 54	*0.3
Virginia Beach	−3 14	*0.3
NORTH CAROLINA		
Beaufort	−2 59	*0.3
Carolina Beach	−3 30	*0.4
SOUTH CAROLINA		
Myrtle Beach	−3 45	*0.5
Charleston	−3 15	*0.5
GEORGIA		
St. Simon's Island	−2 51	*0.7
Savannah	−2 40	*0.8
Tybee Beach	−3 26	*0.8
FLORIDA		
Daytona	−3 20	*0.4
Fort Lauderdale	−2 15	*0.3
Jacksonville	−0 40	*0.1
Miami	−3 00	*0.3
Palm Beach	−3 20	*0.3
Port Everglades	−2 15	*0.3
St. Augustine	−2 20	*0.5
St. Petersburg	+3 58	*0.2
WASHINGTON		
Ilwaco	+1 44	−3.5
Port Townsend	+5 04	*0.5
Seattle	+5 37	−2.0
OREGON		
Astoria	+1 37	−3.3
Cape Arago	+1 19	−4.8
Yaquina Head	+1 12	−3.7
CALIFORNIA		
Catalina Island	−1 33	−5.9
Crescent City	+0 56	−5.0
Eureka	+1 20	−5.0
Long Beach	−1 37	−5.5
Monterey	−0 03	*0.4
Point Mendocino	+0 24	*0.4
San Diego	−1 35	−5.9
San Francisco	+0 59	*0.4
Santa Barbara	−1 19	−6.0
Santa Cruz	+0 08	*0.4

Example: The figures for Full Sea in Columns 11 and 12 of the left hand Almanac pages 12–34 are the times of high tide at Commonwealth Pier in Boston Harbor. The heights of these tides are given on the right hand pages 13–35. The heights are reckoned from Mean Low Water: each day has a set of figures—upper for the morning—and lower for the evening. Since Gulf ports are not beset with the tidal problems of ports on the open ocean, the conversion of the times of the tides at Boston to those of Miami is given by way of illustration.

See page 18, column 11.

	BOSTON		MIAMI
High Tide	7.30 P.M.E.S.T.	High tide (Boston)	7.30 P.M.
April 1		Correction above	−3.00
		High tide (Miami)	4.30 P.M.E.S.T.
Height	8.6 feet	Height (Miami) (8.6 x 0.3)	2.6 feet

ALMANAC DATA — ALL POINTS IN U.S.A.

TABLE FOR FINDING TIMES OF SUNRISE, SUNSET, MOONRISE, MOONSET, AND RISING AND SETTING OF PLANETS TO WITHIN 5 MIN. ACCURACY ANYWHERE IN U. S. A.

(See explanation on preceding pages 103 and 105.)

ZONES Lo.	Lat.		A m	B m	C m	D m	E m	F m	G m	H m	I m	J m	K m	L m	M m	N m	O m	P m	Q m	☽
Your Town: To find the corrections for your town, see instructions on page 103																				Moon
Eastern Standard Time	67°W	45°N	Eastport, Me.	−28	−27	−25	−23	−22	−20	−19	−17	−16	−14	−13	−11	−10	− 8	− 7	− 5	− 4	−1
	69°W	45°N	Bangor, Me.	−21	−20	−18	−17	−15	−13	−12	−11	− 9	− 8	− 6	− 4	− 3	− 2	0	2	3	0
	69°W	44°	Rockland, Me.	−16	−15	−14	−13	−12	−11	−10	− 9	− 8	− 7	− 6	− 5	− 4	− 3	− 2	− 1	0	0
	71°W	45°N	Rangeley, Me.	−14	−13	−11	− 9	− 8	− 6	− 5	− 3	− 2	0	1	3	4	6	7	9	10	0
	71°W	43°	Portsmouth, N.H.	− 4	− 3	− 3	− 3	− 2	− 2	− 2	− 1	− 1	− 1	0	0	1	1	1	1	1	0
	71°W	41°	Newport, R.I.	5	5	4	4	3	3	2	1	1	0	0	0	− 1	− 2	− 2	− 3	− 3	0
	73°W	45°N	St. Albans, Vt.	− 4	− 3	− 1	1	2	4	5	7	8	10	11	13	14	16	17	19	20	0
	73°W	43°	Bennington, Vt.	2	2	2	3	3	3	4	4	4	4	5	5	5	5	6	6	6	0
	73°W	41°	New Haven, Conn.	13	12	11	11	10	9	9	8	7	7	6	6	5	4	3	3	2	0
	75°W	45°N	Massena, N.Y.	3	5	6	8	10	11	13	14	15	17	19	20	22	23	25	26	28	1
	75°W	43°	Utica, N.Y.	14	14	15	15	15	16	16	16	17	17	17	18	18	18	19	19	19	1
	75°W	41°	Stroudsburg, Pa.	23	22	21	20	20	19	18	17	16	16	15	14	13	12	11	10	9	1
	75°W	40°	Philadelphia, Pa.	28	26	25	23	22	21	19	18	17	15	14	13	11	10	8	7	6	1
	75°W	36°	.....	42	39	36	32	29	25	22	19	16	12	8	5	2	− 1	− 5	− 8	−11	1
	80°W	44°N	Toronto, Canada	27	28	29	30	31	31	32	33	33	34	35	36	37	37	38	39	39	1
	80°W	40°	Pittsburgh, Pa.	44	43	42	41	40	39	38	36	35	34	33	32	31	30	29	27	26	1
	80°W	36°	Greensboro, N.C.	61	59	56	52	49	45	42	38	35	31	28	25	22	18	15	11	8	1
	80°W	32°	.....	75	72	67	61	56	51	46	41	36	30	25	20	15	10	5	0	− 5	1
	80°W	30°	Jacksonville, Fla.	82	78	72	66	61	55	49	43	36	31	24	18	12	6	0	− 6	−10	1
	80°W	26°	Miami, Fla.	94	89	82	74	67	59	52	44	37	29	21	14	6	− 1	− 8	−16	−23	1
	85°W	44°N	Cadillac, Mich.	49	50	51	52	53	54	55	56	57	59	60	61	62	63	64	65	66	2
	85°W	40°	Dayton, Ohio	65	63	62	60	59	57	55	54	52	51	49	48	46	45	43	42	41	2
	85°W	36°	*Knoxville, Tenn.	78	75	72	68	65	61	58	55	52	48	44	41	38	35	31	28	25	2
	85°W	32°	Columbus, Ga.	93	90	85	80	75	70	65	60	56	51	46	40	35	30	26	21	17	2
	85°W	30°	Tallahassee, Fla.	97	93	88	82	76	70	64	58	52	46	40	34	28	23	18	12	7	2
	90°W	48°N	Grand Portage, Mich.	−14	−10	− 7	− 3	1	4	8	12	15	17	22	26	30	33	37	41	46	3
	90°W	44°	Stevens Point, Wis.	4	5	6	7	8	10	11	12	13	14	16	17	18	19	21	22	23	3

Central Standard Time	90°W	40°	Springfield, Ill.	26	25	24	22	21	19	18	16	15	13	11	10	9	7	5	4	3	3
	90°W	36°	Memphis, Tenn.	44	41	38	34	30	27	23	19	16	11	8	4	1	− 3	− 7	−11	−14	3
	90°W	32°	Jackson, Miss.	55	52	47	42	36	31	26	21	17	10	5	0	− 4	−10	−14	−18	−23	3
	90°W	30°	New Orleans, La.	61	57	52	46	39	33	27	21	16	8	2	− 4	− 9	−15	−21	−26	−31	3
	95°W	48°N	Bemidji, Minn.	10	12	15	19	22	26	29	32	35	39	42	45	48	52	55	58	63	4
	95°W	44°	Windom, Minn.	30	30	31	32	33	34	35	36	36	37	38	39	40	41	42	42	43	4
	95°W	40°	St. Joseph, Mo.	47	46	44	42	41	39	38	36	35	33	32	30	29	27	26	24	23	4
	95°W	36°	Wagner, Okla.	63	61	58	54	51	47	44	40	37	33	30	27	24	20	17	13	10	4
	95°W	32°	Tyler, Texas	75	71	67	61	56	51	46	41	36	30	25	20	16	11	6	1	− 3	4
	95°W	30°	Houston, Texas	83	79	74	68	61	55	49	42	37	30	24	17	11	6	0	− 5	−10	4
	95°W	26°	.....	93	88	81	73	65	58	50	42	36	27	19	12	4	− 3	−10	−17	−23	4
	100°W	48°N	Rugby, N.D.	26	31	35	38	43	46	51	54	58	62	66	70	74	78	82	86	92	4
	100°W	44°	Pierre, S.D.	48	49	50	52	53	54	55	56	57	59	60	61	62	64	65	66	67	4
	100°W	40°	*McCook, Neb.	68	67	66	64	63	62	60	59	58	57	55	54	53	52	50	49	48	4
	100°W	36°	Woodward, Okla.	78	76	72	69	66	63	59	56	53	50	46	43	41	37	34	31	28	4
	100°W	32°	Abilene, Texas	92	88	84	79	74	68	63	58	53	48	43	38	34	29	24	20	15	4
	100°W	28°	Laredo, Texas	106	102	95	88	81	74	67	60	54	45	39	31	25	18	11	6	− 1	4
Mountain Standard Time	105°W	48°N	Sidney, Mont.	−15	−12	− 8	− 5	− 1	3	6	9	12	16	20	23	26	30	34	37	42	5
	105°W	44°	Newcastle, Wyo.	6	6	7	8	9	10	11	12	12	13	14	15	16	17	18	18	19	5
	105°W	40°	Denver, Colo.	28	26	25	23	22	20	19	17	16	14	12	11	10	8	6	5	4	5
	105°W	36°	Las Vegas, N.Mex.	44	41	38	34	31	27	23	20	17	12	8	5	2	− 1	− 5	− 9	−12	5
	105°W	32°	Carlsbad, N.Mex.	51	47	42	37	32	27	22	17	13	7	0	− 3	− 8	−13	−17	−22	−26	5
	105°W	28°	Chihuahua, Mexico	70	65	59	53	46	39	33	26	20	12	6	− 1	− 7	−14	−19	−25	−31	5
	112°W	48°N	Great Falls, Mont.	15	18	21	25	28	32	35	38	41	45	48	51	54	58	61	64	69	6
	112°W	44°	Madison, Idaho	36	37	38	39	40	41	41	42	43	44	45	46	47	47	48	49	50	6
	112°W	40°	Provo, Utah	53	52	50	49	47	46	45	44	43	41	40	39	38	36	35	33	32	6
	112°W	36°	Flagstaff, Ariz.	71	68	65	61	57	53	49	46	42	38	34	31	27	24	20	16	13	6
	112°W	32°	Tucson, Ariz.	78	75	70	65	60	54	49	44	39	34	29	24	19	14	9	5	0	6
Pacific Standard Time	117°W	48°N	Spokane, Wash.	−23	−19	−16	−12	− 9	− 5	− 2	2	5	9	12	16	19	22	26	29	35	7
	117°W	44°	Baker, Ore.	− 4	− 3	− 1	1	2	3	5	6	7	8	10	11	12	13	14	16	17	7
	117°W	40°	Austin, Nev.	17	15	14	12	10	9	7	6	4	2	1	− 1	− 3	− 4	− 6	− 8	− 9	7
	117°W	36°	Ballarat, Cal.	31	28	25	21	18	15	11	8	5	1	− 2	− 6	− 9	−12	−16	−19	−23	7
	117°W	32°	San Diego, Cal.	44	38	34	29	24	19	14	9	4	− 1	− 6	−11	−16	−21	−26	−30	−35	7
	123°W	49°N	Bellingham, Wash.	− 8	− 3	1	5	10	14	18	22	26	30	35	39	43	47	52	56	62	8
	123°W	46°	Astoria, Ore.	12	14	17	19	22	24	27	29	31	34	36	38	41	43	45	48	51	8
	123°W	42°	Medford, Ore.	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	8
	123°W	38°	San Francisco, Cal.	45	43	41	38	36	33	30	28	25	23	20	18	16	13	10	8	6	8
	123°W	34°	.....	61	57	53	49	45	40	36	32	28	23	19	15	10	6	2	− 3	− 6	8

* The correction figures given for Knoxville and McCook yield standard times one hour fast of those normally used there.

INDEX

THE OLD FARMER'S ALMANAC *contains a wealth of information. Those who do not understand the signs, symbols, references, etc. are urged to consult page 11.*

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STANDARD TIME IS USED THROUGHOUT THIS ALMANAC

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July	Hot! Make tall drinks with Clicquot Club *Tom Collins Mixer*
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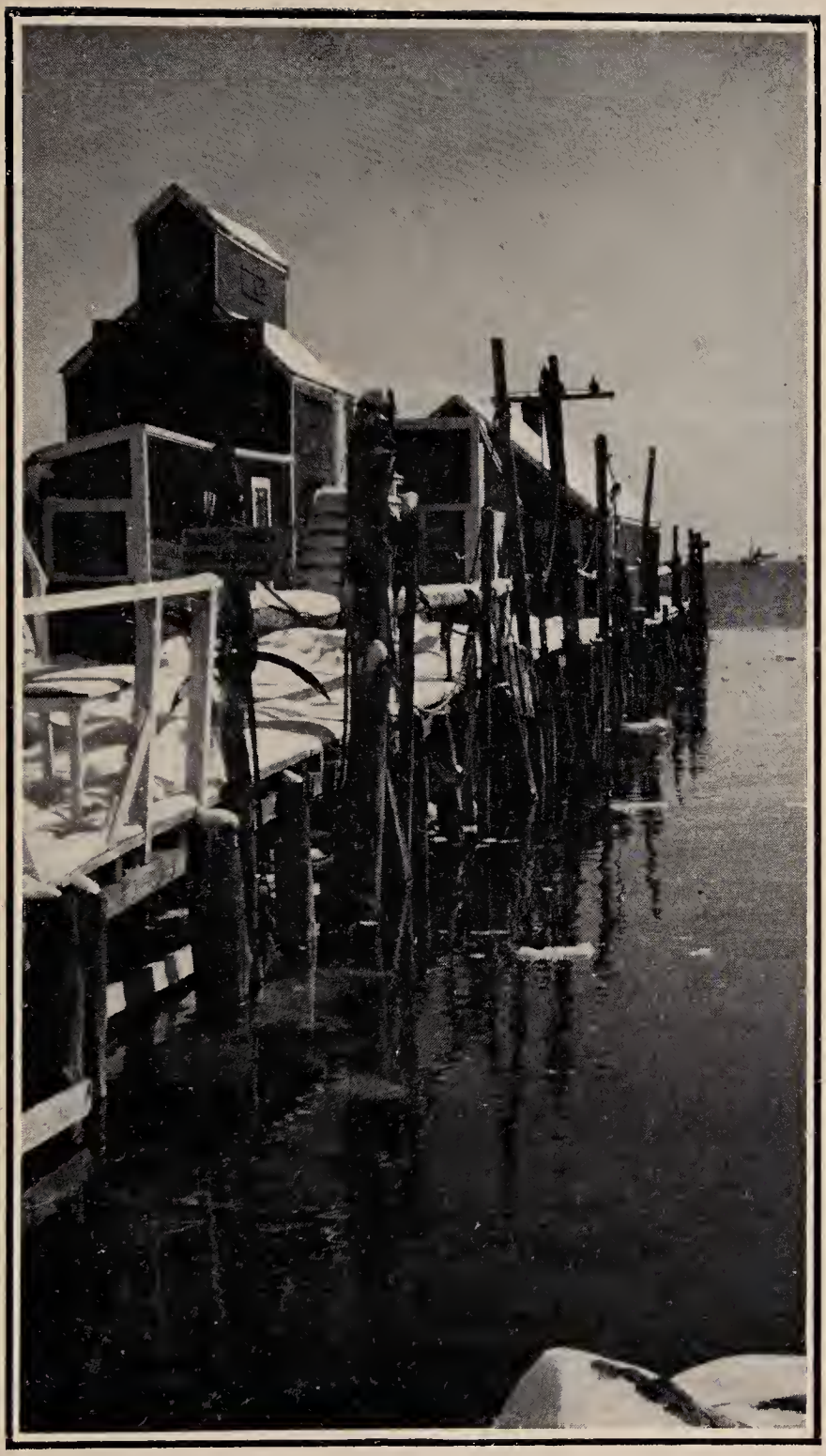

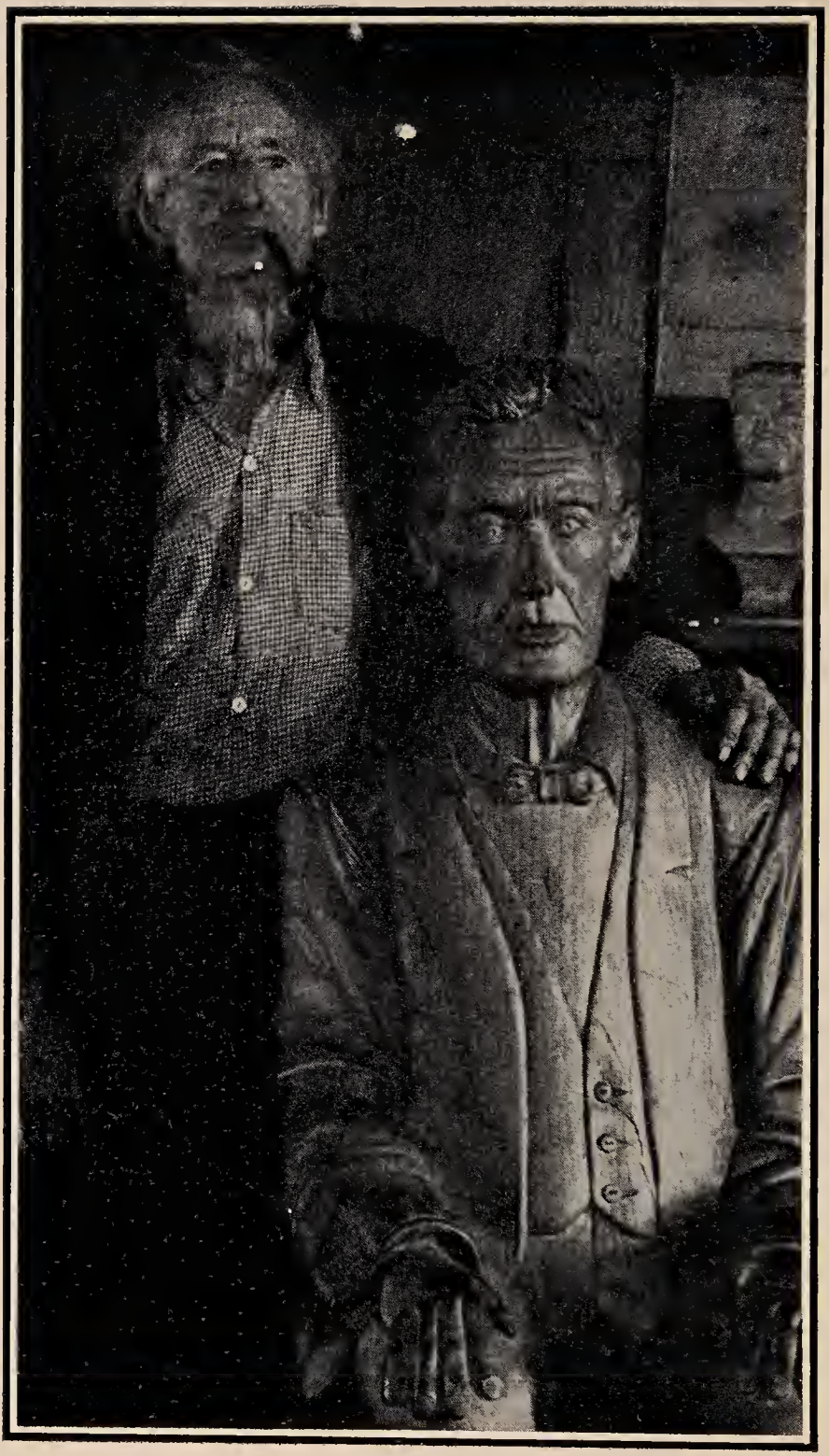

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